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# Analysis of the Spectrum of Doubly Ionized Molybdenum (Mo III)

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National Institute of Standards and Technology, Gaithersburg, MD 20899 The spectrum of doubly ionized molybdenum (Mo III) was produced in a sliding spark discharge and recorded photographically on the NIST 10.7-m normal incidence spectrograph in the 800-3250 Å spectral region. The analysis has led to the establishment of 76 levels of the interacting  $4d^4$ ,  $4d^3$  5s and  $4d^2$  5s² even configurations, 73 levels of the interacting  $4d^3$  5d and  $4d^3$  6s even configurations, and 181 levels of the interacting  $4d^3$  5p and  $4d^2$  5s5p odd configurations. Approximately 3100 lines have been classified as transitions between these experimentally determined

levels. Comparison between the observed levels and those calculated from matrix diagonalizations with least-squares fitted parameters shows standard deviations of 44, 33, and 183 cm<sup>-1</sup>, respectively, for the levels of the three sets of configurations.

**Key words:** energy levels; molybdenum; parameters; spectra; wavelengths.

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#### 1. Introduction and Observations

In 1988 we published an analysis of the spectrum of doubly ionized molybdenum (Mo III) [1] in which a total of 679 spectral lines were classified. These were transitions between 54 levels of the  $4d^4$  and  $4d^3$  5s even configurations and 65 levels of the  $4d^3$  5p odd configuration in that work.

We have now made additional observations in the range of 800-2100 Å to supplement our earlier data which covered the region 1100-3250 Å. These new observations were made under conditions similar to the previous ones but extended into the short wavelength region. The spectra were photographed on the NIST 10.7-m normal-incidence vacuum spectrograph equipped with a 1200-1/mm grating blazed at 1200 Å. A sliding spark operated at various excitation conditions was used to pro-

duce the spectra. The intensity distribution along each line and the behavior of the line intensity at 50, 80, and 150 A peak currents were used to find optimum conditions for the third spectrum. Reference wavelengths of Cu, Ge, and Si [2] were obtained with a water-cooled hollow cathode discharge. Details about the experimental methods are the same as given in reference [1]. Approximately 5000 of the observed lines had Mo III character. The wavelength uncertainty of the observed lines is estimated to be  $\pm 0.005$  Å.

#### 2. Analysis

The spectrum is complex due to the open 4d-shell structure of the doubly ionized atom; the ground configuration is  $4d^4$ . The large number of

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levels in the seven lowest configurations leads to many possible transitions. With the Cowan series of atomic structure programs [3], which include Hartree-Fock calculations with relativistic corrections (HFR) and matrix diagonalizations, we were able to predict the complete electric dipole spectrum. This included both  $(4d^4+4d^35s+4d^25s^2)-(4d^35p+4d^25s5p)$  and the  $4d^3 5p - (4d^3 5d + 4d^3 6s)$  transition arrays. The observed line list and the line intensities were then compared to the predictions in order to extend the earlier analysis [1]. Calculations were made for each of the following interacting configuration groups: (1)  $4d^4+4d^3 5s+4d^2 5s^2$ , (2)  $4d^3 5d+$  $4d^3$  6s, and (3)  $4d^3$  5p  $+4d^2$  5s 5p. The resulting values for the radial integrals were adjusted by a least squares fit to the known levels, and improved as new levels were found.

This led to the identification of all 34 energy levels of  $4d^4$  and all 38 energy levels of  $4d^3$  5s. The values of four of the previously reported levels were incorrect and have been replaced. They are the  ${}^3P_02$ ,  ${}^1I_6$ ,  ${}^1D_22$  and  ${}^1S_02$  levels of  $4d^4$ . We use the index numbers assigned by Nielson and Koster [4] to distinguish recurring terms in the  $d^n$  configurations. These index numbers were used by Martin et al. [5] in their compilation of atomic energy levels of the rare earth elements. All other previously reported level values were adjusted with the new data. Of the nine predicted levels of  $4d^2$  5s², only those of the  ${}^3F$ , and the  ${}^1G_4$  have been located.

The  $4d^3(^2\text{H})5d^3\text{K}_8$  level has not been located. One strong transition is expected, but there are no appropriate lines (intensity, range, ...) to establish it with certainty. For the  $4d^3(^2\text{H})5d^3\text{K}_7$ , we have found a tentative energy value based on transitions with  $4d^3(^2\text{H})5p^3\text{I}_6$  and  $^3\text{I}_6$  at 1934.709 and 1808.672 Å, respectively. Because the second transition would be coincident with a second order Mo IV line, we consider the evidence for the level questionable.

We have found 54 levels of the  $4d^3$  5d configuration and 19 of  $4d^3$  6s. With the exception of  $4d^3$  ( $^4$ F)5d  $^5$ D, all of the levels based on the  $4d^3$  ( $^4$ F) parent have been found. These two configurations overlap extensively and similar terms of each configuration are very close. This accounts for the strong configuration interaction (CI). This may be seen in figure 1 where the levels are connected to show the LS terms.

Table 1 contains the 149 known levels of the five lowest even configurations, including for each level the configuration, term, J value, level value,

difference between the observed level value and that obtained from the least-squares fits (O-C), and the leading eigenvector percentages in the LS-coupling scheme. The uncertainty in each level value depends on the number of combinations and on the wavelength region where the combinations appear. The uncertainties of the optimized energy-level values are generally less than  $\pm 0.10$  cm<sup>-1</sup> and no greater than  $\pm 0.20$  cm<sup>-1</sup>. The average LS purities of the  $(4d^4+4d^35s+4d^25s^2)$  and  $(4d^35d+4d^36s)$ groups of configurations are 83% and 59%, respectively. Although 15 levels of  $4d^3 5d$  and two of  $4d^3$  6s have their largest eigenvector components less than 50%, only five levels of  $4d^3$  5d have been given LS names that are not those of the largest eigenvector component.

Table 2 contains the odd parity energy levels. Sixty-five levels of  $4d^3$  5p were included in the previous publication [1], but we have now found all 110 levels of this configuration. Seventy-one of the 90 predicted levels of  $4d^2$  5s 5p were found through transitions with  $4d^3$  5s and  $4d^2$  5s 2 levels in the vicinity of 1800 Å. The lowest levels of  $4d^2$  5s 5p overlap with the highest levels of  $4d^3$  5p. The structure of the  $4d^2$  5s 5p configuration is represented in figure 2. The combined average LS purity of the levels of these two odd configurations is 63%. Only four of the levels have been given LS names that are not associated with the largest eigenvector component.

A total of about 3100 spectral lines have been classified as transitions among the 330 levels. Table 3 includes all of the spectral lines classified as Mo III, giving for each the wavelength (in air above 2000 Å), intensity, wavenumber, difference between the observed wavelength and the wavelength obtained from the final level values (O-C), and its classification. The levels are denoted by their integer energy and J values.

The Cowan least-squares program [3] was used to fit the radial coefficients for each of the three sets of configurations to the observed energy levels. Tables 4, 5, and 6 include the least-squares fitted (LSF) and HFR values for the parameters of the  $(4d^4+4d^3\,5s+4d^2\,5s^2)$ , the  $(4d^3\,5d+4d^3\,6s)$ , and the  $(4d^3\,5p+4d^2\,5s\,5p)$  configuration groups. The ratios of the LSF to HFR values are also given. The standard deviations of the fits are 44, 33, and 183 cm<sup>-1</sup>, respectively.

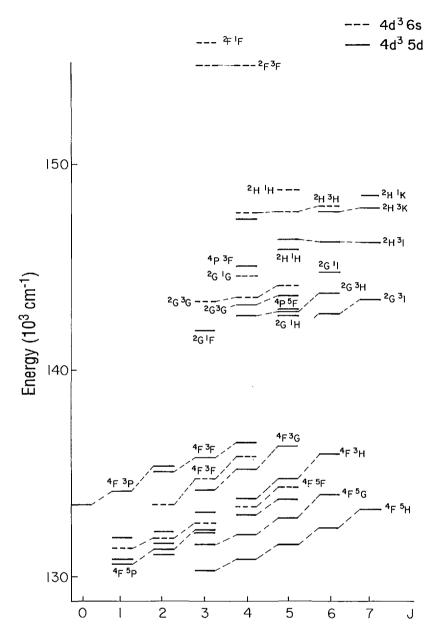


Figure 1. Observed energy levels of the  $4d^3 5d$  and  $4d^3 6s$  configurations. The levels are connected to show the LS terms.

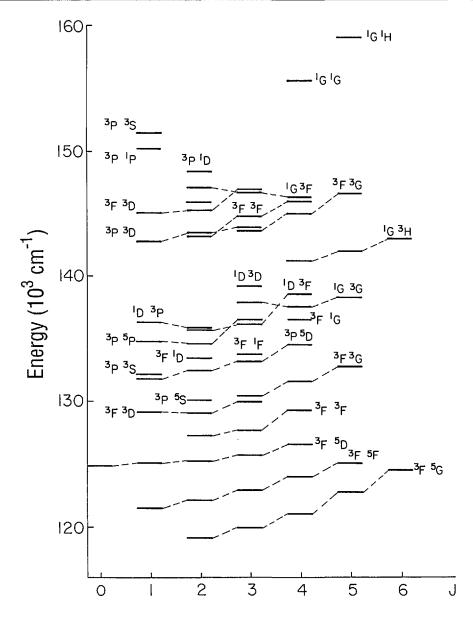


Figure 2. Observed energy levels of the  $4d^2$  5s5p configuration. The levels are connected to show the LS terms.

Table 1. Observed levels of the  $4d^4$ ,  $4d^3$  5s,  $4d^2$  5s2,  $4d^3$  5d, and  $4d^3$  6s even configurations of doubly ionized molybdenum (Mo III)

Configuration	$\operatorname{Term} J$	Level (cm <sup>-1</sup> )	O-C (cm <sup>-1</sup> )	Leadi	ng percentages <sup>a</sup>	
$\frac{1}{4d^4}$	5D 0	0.0	-1	98		
	1	242.04	0	99		
	2	668.44	4	99		
	3	1223.96	12	100		
	4	1872.49	25	99		
4 <i>d</i> ⁴	³P2 0	11271.80	-3	58	35 <sup>3</sup> P1	
+α		12510.23		62	34 <sup>3</sup> P1	
	1 2	14357.56	2 7	63	34 P1 32 <sup>3</sup> P1	
4d <sup>4</sup>	<sup>3</sup> H 4	12670:70	22	85	7 <sup>3</sup> G	
4a ·		12679.70		94	/ -G	
	5 6	13275.51 13811.19	<b>-4</b> 18	9 <del>4</del> 98		
			10	70		
$4d^4$	<sup>3</sup> F2 2	13928.70	-22	75	21 <sup>3</sup> F1	
	3	13948.27	<b>—14</b>	61	21 ³G	17 <sup>3</sup> F1
	4	14296.10	14	63	14 <sup>3</sup> F1	10 ³ <b>H</b>
4d4	<sup>3</sup> G 3	15871.20	<b>-4</b> 1	78	18 ³F2	
	4	16282.70	-33	81	10 <sup>3</sup> F2	
	5	16714.38	-18	93	-·	
4d4	<sup>3</sup> D 3	19487.89	-3	97		
4a		19576.66			5 ¹D	
	2 1	19896.0	5 19	90 98	ט נ	
4 <i>d</i> ⁴	- 6 ا					
4a ·	1 0	19973.54	51	98		
$4d^4$	¹G2 4	20611.87	-8	63	28 <sup>1</sup> G1	
4d <sup>4</sup>	¹S2 0	22890.12	-31	77	20 <sup>1</sup> S1	
$4d^4$	<sup>1</sup> D2 2	23183.70	69	70	17 <sup>1</sup> <b>D</b> 1	6 <sup>3</sup> D
4d <sup>4</sup>	<sup>1</sup> F 3	27006.61	40	94		
4d4	<sup>3</sup> P1 2	31323.10	46	63	32 <sup>3</sup> P2	
	1	32519.35	4	61	$34 ^{3}P2$	
	0	33155.4	-17	61	34 <sup>3</sup> P2	
4d <sup>4</sup>	<sup>3</sup> F1 2	32387.45	-60	75	20 <sup>3</sup> F2	
166	4	32398.89	_ 55	80	16 <sup>3</sup> F2	
	3	32587.37	—15	76	18 <sup>3</sup> F2	
4 d3/4 E) E c	5 E2 1	22419 60	2	00		
4d <sup>3</sup> ( <sup>4</sup> F)5s	<sup>5</sup> F 1	32418.68	-3 4	98		
	2	32843.28	4	98		
	3	33452.23	13	99		
	4	34225.38	24	99		
	5	35129.46	35	99		
4d <sup>4</sup>	¹G1 4	36164.03	-23	64	28 <sup>1</sup> G2	
4d3(4P)5s	<b>5P</b> 1	42404.71	-26	97		
	2	42665.77	-31	57	40 ( <sup>4</sup> F)5s	³F
	3	43461.62	0	89	10 (4F)5s	³F
4d <sup>3</sup> ( <sup>4</sup> F)5s	³F 2	42521.83	-57	56	38 ( <sup>4</sup> P)5s	5 <b>p</b>
· /==	3	43561.76	<b>-35</b>	84	11 ( <sup>4</sup> P)5s	5 <b>P</b>
	-	44655.28		- •	(-,55	

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Table 1. Observed levels of the  $4d^4$ ,  $4d^3 5s$ ,  $4d^2 5s2$ ,  $4d^3 5d$ , and  $4d^3 6s$  even configurations of doubly ionized molybdenum (Mo III)—Continued

4d <sup>3</sup> ( <sup>2</sup> G)5s		(cm <sup>-1</sup> )	(cm <sup>-1</sup> )	Leadi						
<b>、</b> - /	³G 3	46299.58	-37	96				•	<del></del> _	
	4	46601.58	-43	87	6	(4F)5s	$^{3}\mathbf{F}$			
	5	46962.10	-58	88		(2H)5s	$^{3}H$			
ld <sup>4</sup>	¹D1 2	47978.47	-30	73	16	¹D2		3	(2D2)5s	¹D
4d³(²P)5s	<sup>3</sup> P 1	48734.33	13	69	19	(2D2)5s	$^{3}D$	6	(2D1)5s	$^{3}D$
( - )	0	48854.57	195	94		<b>\</b> /	_	_	( - <i>)</i>	
	2	49088.73	26	63	20	(2D2)5s	$^{3}D$	5	$(^{2}D1)5s$	$^{3}D$
4d³(²H)5s	³H 4	49541.67	55	85	10	(2G)5s	¹G			
44 ( II)33	5	50318.82	50	90	10	( 0)33	J			
	6		36	100						
	0	50481.62	30	100						
4d <sup>3</sup> ( <sup>2</sup> D2)5s	$^{3}D$ 1	50362.58	-43	44	25	(2P)5s	$^{3}P$	14	(2D1)5s	$^{3}D$
• •	3	51425.90	-113	80	18	(2D1)5s	$^{3}D$		` / -	
	2	51482.87	-30	55		( <sup>2</sup> P)5s	$^{3}P$	16	$(^{2}D1)5s$	$^{3}D$
4d³(2G)5s	¹G 4	52697.96	48	82	10	(2H)5s	<sup>3</sup> H			
4d³(4P)5s	³P 1	52811.06	0	63	22	(2P)5s	¹P	9	(2D2)5s	3D
ra (1)55	0	53407.40	35	92		( 1 )55	•		( 22)55	_
	2	54191.24	61	90						
ld <sup>3</sup> ( <sup>2</sup> H)5s	¹H 5	54853.34	-12	99						
4d³(²P)5s	<sup>τ</sup> <b>P</b> 1	55366.47	-8	64	30	(⁴P)5s	$^{3}P$			
4d³(²D2)5s	<sup>1</sup> D 2	56741.89	11	69	18	(2D1)5s	$\mathbf{Q}_1$	6	$^{1}\mathbf{D}$	
4d³(²F)5s	³F 4	50720 47	£2	n e						
4a ( F) 38		58730.47	-53	98						
	3	58893.82	<b>-27</b>	98						
	2	59059.6	-12	98						
4d <sup>4</sup>	¹S1 0	62879.75	-16	78	20	<sup>1</sup> S2				
$4d^3(^2F)5s$	¹ <b>F</b> 3	64331.17	-21	97						
4d³(2D1)5s	$^{3}D$ 3	72187.93	27	81	18	(2D2)5s	$^{3}D$			
` '	2	72356.47	10	78		(2D2)5s				
	1	72481.84	-3	77		(2D2)5s				
4d³(²D1)5s	¹D 2	77557.42	0	77	21	(2D2)5s	$^{1}\mathbf{D}$			
4d²(³F)5s2	³ <b>F</b> 2	88067.0	6	97						
10 (17)32	3	89482.54	0	99						
	4	91098.5	_6	98						
4d²(¹G)5s2	¹G 4	103485.73	-2	99						
A 23/4TONE 2	5** 0	120265 61	26	0.5						
4d <sup>3</sup> ( <sup>4</sup> F)5d	<sup>5</sup> H 3	130365.61	36	95 03						
	4	130918.16	36 35	93						
	5	131607.85	35	93						
	6 7	132424.4 133337.7	34 36	95 99						

Table 1. Observed levels of the  $4d^4$ ,  $4d^3$  5s,  $4d^2$  5s2,  $4d^3$  5d, and  $4d^3$  6s even configurations of doubly ionized molybdenum (Mo III)—Continued

Configuration	Term J	Level (cm <sup>-1</sup> )	O-C (cm <sup>-1</sup> )	Leadi	пд регсег	ntages <sup>a</sup>				
4d <sup>3</sup> ( <sup>4</sup> F)5d	³D 1	130629.3 <sup>b</sup>	-2	34	41	(4F)5d	5 <b>P</b>	15	(4F)5d	5F
( 1 )=1	2	131913.3 <sup>b</sup>	-10	25	33	(4F)6s	5F	21	(4F)5d	5 <b>P</b>
	3	133151.83 <sup>b</sup>	-6	42		( <sup>4</sup> F)5d	5 <b>P</b>	5	( <sup>4</sup> F)5d	${}^{3}F$
4d³(4F)5d	5P 1	130886.95	11	52	24	(4F)5d	5 <b>F</b>	16	(4F)5d	³D
` ,	2	131379.2	-3	54	18	(4F)5d	⁵G	11	(4F)5d	$^{3}D$
	3	132337.96	-25	46	36	(4F)5d	$^{3}D$	6	(4F)5d	⁵G
4d³(⁴F)5d	⁵G 2	131072.5	-26	30	28	(4F)5d	5F	24	(4F)5d	³₽
` '	3	131592.6	-22	52	39	(4F)5d	5 <b>F</b>		` '	
	4	132173.9	-20	51	39	(4F)5d	5 <b>F</b>	4	(4F)5d	5H
	5	132951.3	-17	55		(4F)5d	5F	5	(4F)5d	5H
	6	134010.4	-19	90		(-)	_	_	(-)	
4d³( <sup>4</sup> F)6s	5F 1	131396.0	14	75	17	( <sup>4</sup> F)5d	$^{3}D$			
(1)00	2	131647.45	2	40	38	(4F)5d	5G	15	(4F)5d	5F
	3	132279.6	3	42	24	( <sup>4</sup> F)5d	⁵G	17	( <sup>4</sup> F)5d	5F
		133446.5	_9	63	25	( <sup>4</sup> F)5d	⁵F	8	( <sup>4</sup> F)5d	<b>5</b> G
	4 5	13446.5	_9 1	83	12		<sup>5</sup> F	ð	(F)3u	U
4d³( <sup>4</sup> F)5d	5F 1	131900.8	-10	56	22	( <sup>4</sup> F)5d	3 <b>D</b>	17	( <sup>4</sup> F)6s	5F
ta (1')Su	2	132228.4	-10 -12	38	26	( <sup>4</sup> F)5d	³D	15	( <sup>4</sup> F)6s	5F
		132228.4 132666.7 <sup>b</sup>							( <sup>4</sup> F)5d	
	3		16	36	44	(4F)6s	⁵F	14	` '	5C
	4 5	133034.7 <sup>6</sup> 133782.3	0 -5	30 47	34 34	(⁴F)5d (⁴F)5d	⁵G ⁵G	31 14	( <sup>4</sup> F)6s ( <sup>4</sup> F)6s	5F 5F
4.33/4ENE I	3n o	122500.0	26	01						
4d <sup>3</sup> ( <sup>4</sup> F)5d	<sup>3</sup> P 0	133508.9	<b>-36</b>	91		OTNE I	373		(4T) = 1	3-
	1 2	134185.0 135441.05	-26 -39	83 74	4 7	( <sup>2</sup> P)5d ( <sup>4</sup> F)5d	³₽ ³F	4 5	( <sup>4</sup> F)5d ( <sup>4</sup> F)5d	³□ ³□
4 <i>d</i> <sup>3</sup> ( <sup>4</sup> F)6 <i>s</i>	³F 2	133563.4	-2	91						
4a ( F)0s						(4T2) C =	STO			
	3 4	134665.06 135857.46	-5 13	88 80	4 7	(⁴F)6 <i>s</i> (⁴F)5 <i>d</i>	⁵F ³F	6	(4F)5d	3C
	4	133837.40	13	80	,	( r) <i>sa</i>	·F	0	( r) <i>su</i>	
4d³(4F)5d	<sup>3</sup> H 4	133739.17	66	87	4	$(^{2}H)5d$	$^{3}H$			
	5	134799.5	55	87	4	$(^{2}H)5d$	$^{3}H$			
	6	135979.5	47	87	5	( <sup>4</sup> F)5d	⁵G			
4d³(⁴F)5d	<sup>3</sup> G 3	134295.5	-17	79	4	(2G)5d	$^{3}G$	4	(4F)5d	³F
	4	135261.56	<b>–19</b>	74	10	(4F)5d	$^{3}\mathbf{F}$	3	(4F)5d	5F
	5	136391.56	30	85		(4F)5d	${}^5\!\mathrm{F}$	3	(2G)5d	³C
ld <sup>3</sup> ( <sup>4</sup> F)5d	<sup>3</sup> F 2	135112.06	6	72	9	(4F)5d	3 <b>p</b>	4	(2G)5d	³F
• •	3	135882.9	5	71		(4F)5d	$^{3}D$		(2G)5d	³F
	4	136574.54	-11	66	13	( <sup>4</sup> F)6s	${}^{3}\mathbf{F}$	6	( <sup>4</sup> F)5d	3C
4d <sup>3</sup> ( <sup>2</sup> G)5d	<sup>1</sup> F 3	141993.9	-36	27	17	( <sup>4</sup> P)5d	$^{3}D$	16	(2G)5d	3 <b>C</b>
4d³(2G)5d	<sup>3</sup> H 4	142696.6	19	62	14	(2H)5d	3H	13	(2G)5d	3(
<b>\</b> = <b>/</b> = ==	5	142946.75	38	32		(2G)5d	³G		( <sup>4</sup> P)5d	5 <b>F</b>
	6	143829.4	6	64		( <sup>2</sup> H)5d	³I	9	(2H)5d	³F
4d³(²G)5d	¹H 5	142712.95	-25	69	10	(2G)5d	$^{3}H$	6	(2G)5d	³I
	³I 6	142822.32	-43	87	8	(2H)5d	$^{3}I$			
4d³(2G)5d					-	·	-			
4d³(2G)5d	7	143528.65	-19	87	5	(2H)5d	3K			

Table 1. Observed levels of the 4d<sup>4</sup>, 4d<sup>3</sup> 5s, 4d<sup>2</sup> 5s2, 4d<sup>3</sup> 5d, and 4d<sup>3</sup> 6s even configurations of doubly ionized molybdenum (Mo III)— Continued

Configuration	Ter	m J	Level (cm <sup>-1</sup> )	O-C (cm <sup>-1</sup> )	Leadi	ng perce	ntagesa			-	
4d³(2G)5d	³G	4	143198.04	-11	52	19	(2G)5d	3H	11	(2G)6s	³G
		5	143653.5	-9	34	30	(2G)5d	³H	11	(2H)5d	$^{3}I$
4d³(2G)6s	³G	3	143396.8	118	79	9	(2G)5d	$^{1}\mathbf{F}$	6	(2G)5d	$^{3}G$
		4	143568.8	-11	70	11	(2G)5d	$^{3}G$	10	(2G)6s	$^{1}G$
		5	144121.65	-13	79	8	( <sup>2</sup> H)6s	³H	5	(2G)5d	³G
4d³(2G)6s	¹G	4	144656.26	-6	58	13	(2H)6s	$^{3}H$	6	( <sup>4</sup> P)5d	5D
4d³(2G)5d	¹I	6	144783.96	5	61	13	(2H)5d	$^{3}$ K	11	(2H)5d	$^{1}\mathbf{I}$
4d <sup>3</sup> ( <sup>4</sup> P)5d	${}^{3}\mathbf{F}$	4	145096.74	-15	55	11	(2P)5d	$^{3}F$	8	(2H)5d	$^{3}F$
$4d^{3}(^{2}\text{H})5d$	lΗ	5	145904.28	-7	67	19	(2H)5d	³I	7	(2G)5d	³G
4d <sup>3</sup> ( <sup>2</sup> H)5d	$^{3}I$	7	146257.14	-19	94						
		6	146277.52	-22	73	13	(2G)5d	$^{3}H$	5	(2G)5d	$^{3}I$
		5	146342.74	30	51	15	$(^{2}G)5d$	$^{1}H$	14	$(^{2}H)5d$	$^{1}$ H
$4d^{3}(^{2}D2)5d$	3G	4	147431.23	48	38	22	(2H)5d	$^{3}G$	11	(2G)5d	$^{3}$ F
4d³(2H)6s	$^{3}H$	4	147703.6	-11	75	12	(2G)6s	¹G	7	(2G)6s	$^{3}$ G
		5	147752.1	-11	82	10	(2G)6s	$^{3}G$			
		6	147984.1	2	96						
4d <sup>3</sup> ( <sup>2</sup> H)5d	${}^{3}\mathbf{K}$	6	147758.2	-2	83	8	(2G)5d	¹I			
		7	147963.3	6	90	7	(2G)5d	$^{3}I$			
$4d^3(^2\text{H})5d$	$^{1}\mathbf{K}$	7	148595.3	35	93						
4d³(²H)6s	$^{1}H$	5	148816.1	21	90	4	( <sup>2</sup> H)6s	$^{3}H$			
4d³(2H)5d	$^{3}H$	5	151580.2	-46	48	17	(2H)5d	${}^{3}\mathbf{G}$	9	(2G)5d	$^{3}G$
4d³(²F)6s	${}^3\mathbf{F}$	4	156378.82	-40	92						
		3	156587.8	51	87	8	$(^{2}F)5d$	$^{3}\mathbf{F}$			
4d <sup>3</sup> ( <sup>2</sup> F)6s	$^{1}\mathbf{F}$	3	157546.6	-25	84	6	(2F)5d	$^{3}$ D			

<sup>&</sup>lt;sup>a</sup> The second and/or the third eigenvector component has been omitted when the first one or two components amount to 90% or greater.  $^{\rm b}$  This level is not given the LS name corresponding to the largest eigenvector component.

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Table 2. Observed levels of the  $4d^3 5p$  and  $4d^2 5s5p$  odd configurations of doubly ionized molybdenum (Mo III)

Configuration	Term J	Level (cm <sup>-1</sup> )	O-C (cm <sup>-1</sup> )	Leadi	ng perce	ntagesª				
4d³(4F)5p	<sup>5</sup> G 2	73853.18	-65	96						
··· ( = /-P	3	74724.72	<b>-73</b>	97						
	4	75816.51	-75	97						
	5	77113.28	-62	96						
	6	78689.51	-09	99						
13/450 6	3-5-1	Te050 2/	,	<b>5</b> (	21	(4E) e	ir.	_	(4T)\E	310
$d^{3}(^{4}F)5p$	$^{3}D$ 1	75972.36	-6	56	31	(4F)5p	5F	5	( <sup>4</sup> P)5p	3D
	2	76836.82	-43	47	32	( <sup>4</sup> F)5p	5F	11	( <sup>4</sup> F)5p	5D
	3	80354.49	<b>— 120</b>	41	36	(4 <b>F</b> )5p	³D	7	( <sup>4</sup> P)5p	$^{3}\mathbf{D}$
$d^{3}(^{4}F)5p$	<sup>5</sup> F 3	78158.42	57	42	27	$(^4F)5p$	$^{3}$ D	23	$(^4F)5p$	5 <b>C</b>
	1	78677.94	102	56	26	$({}^{4}F)5p$	5D	13	$(^{4}F)5p$	$^{3}\mathbf{\Gamma}$
	2	79013.98	99	61	22	$({}^{4}F)5p$	$^{5}\mathbf{D}$	11	$(^{4}F)5p$	$^{3}\mathbf{\Gamma}$
	4	79497.10	-32	70	19	$({}^{4}F)5p$	5 <b>D</b>	6	$({}^{4}F)5p$	$^{3}C$
	5	80343.19	15	73	17	$(^4F)5p$	$^{3}$ G	7	$(^{2}G)5p$	³G
$d^{3}(^{4}F)5p$	5 <b>D</b> 0	78568.37	9	91						
··· \ 1 /Jp	1	78947.76	<b>–29</b>	62	15	( <sup>4</sup> F)5p	$^{3}\mathbf{D}$	12	( <sup>4</sup> F)5p	5F
	2	79467.76 79467.93	-29 -87	59	19	( <sup>4</sup> F)5p	$^{3}\mathbf{D}$	7	( <sup>4</sup> P)5p	5 D
	3	79407.93 79508.33 <sup>b</sup>	-87 61	33		(°F)5p (°F)5p	⁵F	9	(*F)5p (*F)5p	3 D
	4	79508.33° 80095.61	—48	33 70	48 15	(°F)5p (°F)5p	ъ ъ́F	4	(⁴F)5p	³F
	+	00073.01	-40	70	13	(1750		7	( 1 Jop	1,
$d^{3}(^{4}F)5p$	<sup>3</sup> G 3	81040.69	43	74	16	$(^{2}G)5p$	${}^{3}\mathbf{G}$	5	$(^4F)5p$	5F
	4	82009.90	<b>—79</b>	66	14	$(^{4}F)5p$	⁵ <b>F</b>	13	$(^{2}G)5p$	³G
	5	83147.76	116	55	25	$(^4F)5p$	5 <b>F</b>	10	$(^2G)5p$	³C
$d^{3}(^{4}F)5p$	<sup>3</sup> F 2	82540.14	42	76	8	(2D2)5p	$^{3}\mathbf{F}$	4	( <sup>4</sup> F)5p	$^3\mathbf{\Gamma}$
( - )0p	3	83584.53	8	79	7	$(^{2}D2)5p$	$^{3}\mathbf{F}$	3	( <sup>4</sup> F)5p	$^{3}\mathbf{\Gamma}$
	4	84544.52	o	80	6	$(^2\mathbf{D}2)5p$	${}^{3}\mathbf{F}$	3	( <sup>4</sup> F)5p	5 <b>D</b>
$d^3(^2\mathbf{P})5p$	¹S 0	84216.41 <sup>b</sup>	-275	29	33	( <sup>4</sup> P)5p	$^{3}\mathbf{P}$	25	( <sup>4</sup> P)5p	5 <b>D</b>
$d^{3}(^{4}P)5p$	5 <b>P</b> 1	85308.94	66	69	13	(⁴P)5p	5D	7	(2P)5p	$^{3}\mathbf{P}$
u (1 )5p	2	86426.81	256	86	8	( <sup>4</sup> P)5p	³D	,	( I ) <i>5p</i>	•
	3	87391.79	298	92	0	( 1 ) <i>5p</i>	D			
.2.4								_		1_
$d^{3}(^{4}P)5p$	$^{3}P$ 2	85329.99	<b>—114</b>	44	20	$({}^{4}P)5p$	<sup>5</sup> D	9	$(^{2}\mathbf{P})5p$	³ <b>P</b>
	1	87831.20	<b>-50</b>	55	27	$({}^{4}P)5p$	,D	8	$(^{2}D2)5p$	³P
	0	89775.81	-153	32	28	$(^{2}\mathbf{P})5p$	$^{3}\mathbf{P}$	26	$(^{2}P)5p$	¹S
$d^{3}(^{4}P)5p$	<sup>5</sup> <b>D</b> 1	85683.11	200	41	28	( <sup>4</sup> P)5p	$^{3}\mathbf{P}$	18	( <sup>4</sup> P)5p	5 <b>P</b>
	0	86322.66	-170	58		$(^{2}\mathbf{P})5p$	<sup>1</sup> S		(4F)5p	5 <b>D</b>
	2	87473.30	5	58		$(^4P)5p$	$^{3}\mathbf{P}$	8	$(^4P)5p$	5 <b>P</b>
	3	87810.66	90	80		$(^4F)5p$	5 <b>D</b>		$(^{2}P)5p$	$^{3}\mathbf{\Gamma}$
	4	89100.17	10	92	,	( - /-P	_	,	( - /-r	_
J3/2C) 5 :-	3TT 4	05006.00	122	60	24	(2TT) = -	3 <b>r</b> .r			
$d^3(^2G)5p$	<sup>3</sup> H 4	85896.20	-132	69 56		( <sup>2</sup> H)5p	3H 3TT		<b>∠4</b> T2\ €	3.0
	5	86892.62	-119	56 50		(2H)5p	<sup>3</sup> H	8	( <sup>4</sup> F)5p	³G
	6	88441.64	-62	59	33	$(^{2}H)5p$	$^{3}$ H			
$d^3(^2G)5p$	¹F 3	88499.21	<b>—146</b>	30	29	( <sup>2</sup> G)5p	$^{3}$ G	18	( <sup>2</sup> G)5p	³F
$d^3(^2\mathbf{P})5p$	<sup>1</sup> D 2	88592.07	123	26	13	$(^4P)5p$	$^{3}\mathbf{P}$	11	$(^2D2)5p$	ιD
$d^{3}(^{2}\mathbf{P})5p$	$^{3}P$ 0	88669.74	147	36	19	(2D2)5p	$^{3}\mathbf{P}$	19	( <sup>4</sup> P)5p	3 <b>P</b>
V 7-2	1	89139.81	163	33		$(^2D2)5p$			$(^{2}\mathbf{P})5p$	$^3\mathbf{\Gamma}$
	2	90982.60	57	32		$(^2\mathbf{D}2)5p$			$(^4P)5p$	5S
130015	\TT -	90/00 01	<b>A1</b>	40	20	(2TT)=	177	1.0	(2rr)=	3=
d³(²G)5p	<sup>1</sup> H 5	89689.91	-31	40	29	$(^{2}H)5p$	<sup>1</sup> H	13	$(^{2}H)5p$	³I

Table 2. Observed levels of the  $4d^3 5p$  and  $4d^2 5s5p$  odd configurations of doubly ionized molybdenum (Mo III)—Continued

Configuration	Term	ı J	Level (cm <sup>-1</sup> )	O-C (cm <sup>-1</sup> )	Leadi	ng percei	ntages <sup>a</sup>				
4d³(²P)5p	<sup>3</sup> D	1	90301.83	262	62	13	(2P)5p	<sup>3</sup> P	7	( <sup>4</sup> F)5p	3D
• •	:	2	91674.55	141	57	11		$^{3}\mathbf{F}$	5	$(^{4}P)5p$	⁵S
	;	3	92758.61	116	48	19	$(^{2}G)5p$	$^{3}\mathbf{F}$	12	$(^{2}D2)5p$	$^{3}\mathbf{F}$
ld³(²G)5p	3 <b>G</b> 4	4	90255.05	-101	63	16	(2G)5p	¹G	13	( <sup>4</sup> F)5p	³G
` ' '		3	90588.46	-119	48	19	(2G)5p	¹F	9	(2G)5p	$^{3}F$
		5	91006.90	<b>-92</b>	57	12	$(^2H)5p$	³I	10	$(^{2}\text{H})5p$	³H
4d³(¹G)5p	³F 4	4	89503.85	162	32	27	(2G)5p	¹G	14	(2H)5p	<sup>3</sup> H
` ' '		2	90586.00	-53	45	11	$(^{2}D2)5p$	$^{3}\mathbf{F}$	10	$(^{2}P)5p$	$^{1}D$
		3	91050.30	_7	35	20		<sup>1</sup> <b>F</b>	13	$(^2D^2)5p$	³F
4d³(²H)5p	3H 4	4	91387.50 <sup>b</sup>	117	35	39	(2G)5p	³ <b>F</b>	12	(2G)5p	³H
12 ( 11)0p		5	92254.52	82	50	26	$(^2G)5p$	3 <b>H</b>		(2H)5p	$^{3}I$
		6	92728.95	170	56		(2G)5p	³H		(11)0p	-
4d³( <sup>4</sup> P)5p	5S :	2	92099.55	-90	75	7	( <sup>2</sup> P)5p	$^{3}P$	5	( <sup>4</sup> P)5p	³ <b>P</b>
4d³(²H)5p	³I	5	92884.18	-28	57	16	(2G)5p	۱H	9	(2G)5p	³G
\		6	93306.10	20	91		, ,,			` ' '	
		7	94424.07	27	100						
4d <sup>3</sup> ( <sup>2</sup> G)5p	¹G ·	4	93102.01	20	51	15	( <sup>2</sup> H)5p	<sup>3</sup> H	7	( <sup>2</sup> G)5p	³H
ld <sup>3</sup> ( <sup>2</sup> P)5p	<sup>3</sup> S	1	93222.37	256	75	9	( <sup>2</sup> P)5p	<sup>3</sup> P	4	( <sup>2</sup> P)5p	¹P
$4d^3(^2D2)5p$	<sup>3</sup> F	2	93642.52	-31	40	28	(2G)5p	$^{3}$ F	9	(2P)5p	3 <b>D</b>
	:	3	94117.58	<b>—14</b>	26	21	$(^{2}D2)5p$	$^{3}D$	14	$(^{2}P)5p$	$^{3}\mathrm{C}$
		4	94955.85	85	63	12	$(^{2}D1)5p$	³F	8	(2G)5p	³F
4d³(²D2)5p	$^{1}\mathbf{P}$	1	93709.46 <sup>b</sup>	96	20	35	( <sup>2</sup> P)5p	$^{1}\mathbf{P}$	17	( <sup>2</sup> D2)5p	³D
4d³(²H)5p	¹G ·	4	94098.26	-94	56	22	$(^{2}F)5p$	¹ <b>G</b>	7	$(^{2}\mathrm{H})5p$	³H
4d³(2D2)5p	$^{3}\mathbf{D}$	1	94292.66	121	48	16	$(^{2}D2)5p$	$^{1}\mathbf{P}$	7	$(^{2}D1)5p$	$^{3}\mathbf{\Gamma}$
	:	2	95551.80	128	47	24	( <sup>4</sup> P)5p	$^{3}D$	12	$(^{2}D1)5p$	$^{3}\mathbf{E}$
	:	3	95856.45	119	34	24	( <sup>4</sup> P)5p	$^{3}\mathbf{D}$	7	$(^{2}D1)5p$	$^{3}\Gamma$
4d <sup>3</sup> ( <sup>4</sup> P)5p	$^{3}\mathbf{D}$	2	94387.70	-33	43	20	(2D2)5p	$^{3}\mathbf{D}$	13	(2D2)5p	$^{3}P$
· · ·		3	94676.73	74	47	18	$(^2D2)5p$	$^{3}D$		(2P)5p	$^{3}$ E
		1	95016.32	152	67	10	$(^{2}P)5p$	$^{3}$ D	7	$(^{2}D2)5p$	¹P
4d³(²H)5p	3 <b>G</b>	5	96285.38	171	49	24	(2H)5p	¹H	14	(2G)5p	¹H
N /=4		3	96838.34	158	60		(2F)5p	³G		$(^2D2)5p$	1F
		4	97184.77	137	72		$(^{2}F)5p$	³G		$(^2G)5p$	³F
4d³(²D2)5p	<sup>3</sup> P	2	96589.89 <sup>b</sup>	-191	31	32	(2P)5p	$^{3}P$	15	( <sup>4</sup> P)5p	³ <b>P</b>
··· ( Day op		1	96736.45	-101	34		$(^{2}P)5p$	$^{3}P$		$(^{2}D2)5p$	
		0	97135.60	-334	47		$(^{2}P)5p$	$^{3}\mathbf{P}$		$(^4P)5p$	³P
4d³(²H)5p	I	6	96907.92	93	90						
4d³(²H)5p	$^{1}\mathbf{H}$	5	97709.08	45	37	33	( <sup>2</sup> H)5p	³G	24	(2G)5p	¹H
4d³(²D2)5p	¹F	3	98562.38	203	42	16	(2G)5p	¹F	12	(2H)5p	3C

Table 2. Observed levels of the  $4d^3 5p$  and  $4d^2 5s 5p$  odd configurations of doubly ionized molybdenum (Mo III)—Continued

Configuration	Term J	Level (cm <sup>-1</sup> )	O-C (cm <sup>-1</sup> )	Leadi	ng perce	ntagesª				
4d³(²F)5p	³F 2	99952.26	-83	64	11	(2P)5p	'D	8	(2D2)5p	¹D
` ' ' '	3	100397.67	75	77	9	·. · •	$^{3}G$	3	$(^2D2)5p$	$^{3}F$
	4	100858.67	88	77		$(^2F)5p$	$^{3}G$	3	$(^2G)5p$	$^{3}F$
ld <sup>3</sup> ( <sup>4</sup> P)5p	<sup>3</sup> S 1	100184.65	134	74	12	( <sup>2</sup> P)5p	<sup>1</sup> P	4	$(^{2}D2)5p$	<sup>1</sup> P
$4d^3(^2D2)5p$	<sup>1</sup> D 2	100219.97	-153	36	30	(2P)5p	$^{1}\mathbf{D}$	17	(2F)5p	³F
4d³(²F)5p	<sup>3</sup> G 3	102557.67	-18	70	12	$(^{2}H)5p$	$^{3}$ G	8	$(^{2}F)5p$	$^{3}F$
	4	103276.74	46	72	13	$({}^{2}F)5p$	$^{3}F$	10	$(^{2}H)5p$	³G
	5	103621.4	43	90	10	$(^2H)5p$	³G			
$4d^3(^2\mathrm{F})5p$	<sup>1</sup> D 2	103303.98	-109	59	28	$(^2D2)5p$	$^{1}\mathbf{D}$	9	$(^2F)5p$	³F
ld³(²F)5p	<sup>3</sup> D 3	103667.40	-169	73	9	(2D2)5p	$^{3}D$	5	(2F)5p	$^{3}F$
=	2	104511.12	-216	84	7	$(^{2}D2)5p$	$^{3}\mathbf{D}$			
	1	105041.26	-229	87	7		$^{3}\mathbf{D}$			
$4d^3(^2F)5p$	¹G 4	106511.94	118	70	24	( <sup>2</sup> H)5p	¹G			
$4d^3(^2\mathrm{F})5p$	¹F 3	106803.63	-299	84	4	( <sup>2</sup> D2)5p	$^{1}\mathbf{F}$	4	$(^{2}F)5p$	³E
4d³(2D1)5p	3D 1	114014.74	80	73	17	(2D2)5p	$^{3}\mathbf{D}$	4	(2F)5p	³ <b>L</b>
	2	114083.06	-51	69	13	$(^2D2)5p$	$^{3}\mathbf{D}$	6	$(^{2}D1)5p$	$^{3}P$
	3	114591.26	<b>–17</b>	69	10	$(^2D2)5p$	$^{3}D$	7	$(^{2}D1)5p$	³F
$d^{3}(^{2}D1)5p$	³F 2	115794.02	<b>—102</b>	55	19	(2D2)5p	$^{3}\mathrm{F}$	8	(2D1)5p	1 <b>I</b>
	3	116497.95	69	59		$(^2D2)5p$	${}^{3}F$		$(^2D1)5p$	³L
	4	117287.80	101	76		$(^2D2)5p$	${}^{3}\mathbf{F}$		\ -/-E	
$d^3(^2D1)5p$	<sup>1</sup> D 2	117336.75	<b>—176</b>	46	17	$(^{2}D2)5p$	$^{1}D$	17	(2F)5p	1E
$4d^3(^2D1)5p$	<sup>3</sup> P 2	118451.23	177	70	18	(2D2)5p	$^{3}\mathbf{P}$	5	$(^{2}D1)5p$	3 <b>D</b>
	1	119206.22	148	72	22	$(^{2}D2)5p$	$^{3}\mathbf{P}$			
	0	119559.55	140	74		$(^{2}D2)5p$	$^{3}\mathbf{P}$			
$d^2(^3F)5s5p(^3P^\circ)$	⁵G 2	119170.3	-234	95						
	3	120064.7	-225	95						
	4	121118.4	-356	96						
	5	122817.2	-110	96						
	6	124605.7	-52	100						
$d^3(^2\mathrm{D}1)5p$	<sup>1</sup> F 3	119479.53	37	71	15	( <sup>2</sup> D2)5p	$^{1}$ F	7	(2D1)5p	³F
1d <sup>2</sup> ( <sup>3</sup> F)5s5p( <sup>3</sup> P°)	5F 1	121723.8	102	96						
	2	122229.55	92	94						
	3	123007.56	83	94						
	4	124005.8	79	94						
	5	125143.67	84	94						
$d^3(^2\mathrm{D}1)5p$	<sup>1</sup> P 1	124221.46	-231	72	25	( <sup>2</sup> D2)5p	$^{1}\mathbf{P}$			
$4d^2(^3F)5s5p(^3P^\circ)$	5D 0	124982.8	22	83	16	(³P)5s5p	5D			
· / F · - /	1	125107.68	31	82		( <sup>3</sup> P)5s5p				
	2	125359.42	43	79		$(^{3}P)5s5p$		3	(3F)5s5p	5F
	3	125786.8	52	78	· 8	$(^{3}P)5s5p$	עי	3	$(^{3}F)5s5p$	Ľ.

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Table 2. Observed levels of the  $4d^3 5p$  and  $4d^2 5s5p$  odd configurations of doubly ionized molybdenum (Mo III)—Continued

4d²(F)5s5p(P*)         F         2         12733603         -241         35         35         (F)5s5p *P         17         (ID)5s5p *P         3         127795.88         -152         24         23         (P)5s5p *P         14         (ID)5s5p *D         12         (ID)5s5p *D         14         (ID)5s5p *D         12         (ID)5s5p *D         14         (ID)5s5p *D <th>Configuration</th> <th>Term J</th> <th>Level (cm<sup>-1</sup>)</th> <th>O-C (cm<sup>-1</sup>)</th> <th>Leadin</th> <th>ng perce</th> <th>ntages<sup>a</sup></th> <th></th> <th></th>	Configuration	Term J	Level (cm <sup>-1</sup> )	O-C (cm <sup>-1</sup> )	Leadin	ng perce	ntages <sup>a</sup>		
3   127795.88	$\frac{1}{4d^2(^3F)5s5p(^3P^\circ)}$	³F 2	127336.03	-241	35	35	(3F)5s5p 3F	17	(¹D)5s5p ³F
4 129383.82	( ) • ( )		127795.88	-152					
									· / -
1   129054.63		•	127505.02	122	55	55	(1)5559 1	• •	( <i>D)</i> 555 <i>p</i> 1
3   129964.64	$4d^2(^3F)5s5p(^3P^\circ)$	$^{3}D$ 2	129055.2	-39	30	26			
4d <sup>2</sup> (P)5s5p(PP)    S 2		1	129065.63	<b>— 17</b>	38	26	$({}^{3}F)5s5p {}^{3}D$	12	$(^{3}P)5s5p^{-3}D$
##2(P)\$5\$p(PP)		3	129964.64	-36	26	25	$(^{3}F)5s5p^{-3}D$	9	$(^{3}P)5s5p \ ^{3}D$
4 131570.80 63 50 28 (*F)555p *G 10 (*G)555p *G 5 132792.84 18 48 32 (*F)555p *G 10 (*G)555p *G 4d*(*P)555p(*P*) **D 1 131782.5 151 79 16 (*F)555p *D 2 132439.5 147 74 15 (*F)555p *D 3 133255.4 181 49 34 (*F)555p *F 7 (*F)555p *D 4 134502.10 236 76 10 (*F)555p *D 3 (*F)555p *D 4 2*(*P)555p(*P*) **S 1 132164.6 209 49 30 (*P)555p *B 4d*(*P)555p(*P*) **D 2 133422.260 55 17 (*P)555p *D 4 (*F)555p *D 4d*(*P)555p(*P*) **P 3 133818.4 166 44 28 (*P)555p *D 6 (*P)555p *D 4d*(*P)555p(*P*) **P 2 134695.4162 45 33 (*D)555p *D 6 (*P)555p *D 4d*(*P)555p(*P*) **P 2 134695.4162 45 33 (*D)555p *D 7 (*D)555p *D 4d*(*P)555p(*P*) **P 2 134695.4162 45 85 8 (*D)555p *D 4d*(*D)555p(*P*) **P 2 135721.81 207 73 17 (*F)555p *D 4d*(*D)555p(*P*) **P 2 135963.7* 106 43 49 (*P)555p *P 9 (*G)555p *G 4d*(*D)555p(*P*) **P 2 135963.7* 106 43 49 (*P)555p *P 9 (*G)555p *G 4d*(*D)555p(*P*) **P 2 135963.7* 106 43 49 (*P)555p *P 10 4d*(*P)555p *P 4d*(*D)555p(*P*) **P 2 135963.7* 106 43 49 (*P)555p *P 10 17 (*P)555p *G 4d*(*D)555p(*P*) **P 2 135963.7* 106 43 49 (*P)555p *P 10 17 (*P)555p *G 4d*(*G)555p(*P*) **P 2 135963.7* 106 43 49 (*P)555p *P 10 17 (*P)555p *D 4d*(*G)555p(*P*) **P 2 135963.7* 106 43 49 (*P)555p *P 10 17 (*P)555p *D 4d*(*G)555p(*P*) **P 3 13844.9 49 76 20 (*P)555p *P 5 13844.9 49 76 20 (*P)555p *F 9 (*P)555p *D 4d*(*G)555p(*P*) **O 3 139243.0 3 76 12 (*P)555p *F 9 (*P)555p *D 4d*(*G)555p(*P*) **D 3 139243.0 3 76 12 (*P)555p *F 5 (*F)555p *D 4d*(*G)555p(*P*) **D 1 142845.9 49 76 20 (*F)555p *F 16 (*P)555p *D 4d*(*G)555p(*P*) **D 1 142845.9 49 76 20 (*F)555p *F 16 (*P)555p *D 4d*(*G)555p(*P*) **D 1 142845.9 49 76 20 (*F)555p *F 16 (*P)555p *D 4d*(*G)555p(*P*) **D 1 142845.9 49 76 20 (*F)555p *F 7 (*F)555p *D 4d*(*G)555p(*P*) **D 1 142845.9 54 134388.8 26 33 17 (*F)555p *F 7 (*F)555p *D 4d*(*G)555p(*P*) **D 1 142845.9 54 134388.8 26 33 17 (*F)555p *F 7 (*F)555p *D 4d*(*F)555p(*P*) **D 1 144812.5 73 40 31 (*F)555p *F 7 (*F)555p *D 4d*(*F)555p(*P*) **D 1 144812.5 73 40 31 (*F)555p *F 7 (*F)555p *F 7 (*F)555p *D 4d*(*F)555p(*P	$4d^2(^3\mathbf{P})5s5p(^3\mathbf{P}^\circ)$	<sup>5</sup> S 2	130073.7	-602	92				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4d <sup>2</sup> ( <sup>3</sup> F)5s5p( <sup>3</sup> P°)	<sup>3</sup> G 3	130453.9	104	51	21	(3F)5s5p 3G	8	(3F)5s5n · 3F
5   132792.84   18   48   32 (P5)555p 3G   15 (G)555p 3G   4d²(P)555p 1G   131782.5   151   79   16 (P5)55p 1G   13439.5   147   74   15 (P5)55p 1D   3 (P5)55p 1D   3 133439.5   147   74   15 (P5)55p 1D   3 (P5)55p 1D   4 (P5)55p 1D   4 (P5)55p 1D   5 (P5)55p 1D   6 (P5)55p 1D   7 (P5)55p 1	(- / /								
2   132439.5   147   74   15   C Pjst5p PD   3   C Pj5t5p PD   3   C Pj5t5p PD   3   C Pj5t5p PD   4   134502.10   226   76   10   C Pj5t5p PD   6   C Dj5t5p PD   7   C Dj5t5									
2   132439.5   147   74   15   C Pjst5p PD   3   C Pj5t5p PD   3   C Pj5t5p PD   3   C Pj5t5p PD   4   134502.10   226   76   10   C Pj5t5p PD   6   C Dj5t5p PD   7   C Dj5t5		-					4		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 <i>d*</i> ('P)5s5p('P")								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		2	132439.5	147	74			3	$({}^{3}F)5s5p {}^{1}D$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		3	133255.4	181	49	34		7	(3F)5s5p 5D
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		4	134502.10	236	76	10	$(^{3}F)5s5p$ $^{5}D$	6	$(^{1}D)5s5p \ ^{3}F$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4d <sup>2</sup> ( <sup>3</sup> P)5s5p( <sup>3</sup> P°)	3S 1	132164.6	209	49	30	( <sup>3</sup> P)5s5p <sup>3</sup> S	16	( <sup>3</sup> P)5s5p <sup>5</sup> P
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4d <sup>2</sup> ( <sup>3</sup> F)5s5p( <sup>3</sup> P°)	¹D 2	133422.2	60	55	17	( <sup>3</sup> P)5s5p <sup>1</sup> D	4	( <sup>3</sup> F)5s5p <sup>3</sup> F
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4d <sup>2</sup> ( <sup>3</sup> F)5s5p( <sup>3</sup> P°)	<sup>1</sup> F 3	133818.4	166	44	28	( <sup>3</sup> P)5s5p <sup>5</sup> D	6	(³F)5s5p <sup>5</sup> D
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 (2/3p) = -= (3p)	SD 2	1246054	160	45	22	drys-s- in	7	(ID) 5 - 5 - 3 D
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ta - (*P)585p(*P*)								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							` ' -	4	(,D)282b ,D
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		3	136281.5	226	85	8	$(^{1}\mathbf{D})5s5p \ ^{3}\mathbf{D}$		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$4d^{2}(^{1}D)5s5p(^{3}P^{\circ})$	<sup>3</sup> F 2	135721.81	207	73	17	(3F)5s5p 3F		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	. , . ,	3	136402.5	228	66	13		9	(1G)5s5p 3G
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ridas e das	ln o	1250/2 <b>5</b> h	100	40		dry e.e. in		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$4a^{2}(\mathbf{D})5s5p(^{3}\mathbf{P}^{2})$						· / •		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1	136300.2	113	42	24	$(^{1}D)5s5p$ $^{3}D$	17	(°P)5s5p °P
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$4d^2(^3F)5s5p(^3P^\circ)$	¹G 4	136575.7	277	51	27	$(^{1}D)5s5p$ $^{3}F$	9	( <sup>3</sup> P)5s5p <sup>5</sup> D
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4d <sup>2</sup> ( <sup>1</sup> G)5s5p( <sup>3</sup> P°)	³G 4	137605.1	161	51	21	(3F)5s5p 1G	13	(3F)5s5p 3G
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	( =)								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								•	( D)335p 1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4d <sup>2</sup> ( <sup>1</sup> D)5s5p( <sup>3</sup> P°)	<sup>3</sup> D 3	139243.0	3				5	(³F)5s5p ³D
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			4.446.5	_ 4					· · · •
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4d^('G)5s5p('P")								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		5	141967.4	<b>-54</b>	96				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		6	142940.8	<b>—76</b>	100				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1d <sup>2</sup> ( <sup>3</sup> P)5e5n( <sup>3</sup> P°)	<sup>3</sup> D 1	142845 0	QΛ	52	15	(3P)5e5n 3D	10	(1D)5e5n 3D
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	τω ( 1 <i>)</i> 33 <i>) P</i> ( 1 ′ )								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		3	143809.26	111	54	28	(P)SSSp D	15	(F)SSSp 'D
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4d <sup>2</sup> ( <sup>3</sup> F)5s5p( <sup>1</sup> P°)	<sup>3</sup> F 2	143204.05	169	34	29	(3F)5s5p 3F	16	(3P)5s5p 3D
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<del>-</del>		144812.5	73	40				
4 145075.7 374 62 23 ( ${}^{3}F$ )5s5p ${}^{3}G$ 5 ( ${}^{1}G$ )5s5p ${}^{3}G$			145951.98 <sup>b</sup>						
4 145075.7 374 62 23 ( ${}^{3}F$ )5s5p ${}^{3}G$ 5 ( ${}^{1}G$ )5s5p ${}^{3}G$	4.J2/377\ee/1730\	3C 2	142701.0	222	ĒO	1.0	(377)5-5:: 30	0	((0)== 30
4 1450/5./ 3/4 62 23 (*F)5x5p *G 5 (*G)5x5p *G 5 146655.7 494 63 30 (*F)5x5p *G	+a -('F) >s >p('P')								
5 146655.7 494 63 30 ( $^{3}$ F) $^{5}$ S5 $^{5}$ P $^{3}$ G						23	(*F)585p *G	5	G. desc(n.)
		5	146655.7	494	63	30	(°F)5s5p °G		

Table 2. Observed levels of the  $4d^3 5p$  and  $4d^2 5s5p$  odd configurations of doubly ionized molybdenum (Mo III)—Continued

Configuration	Term J	Level (cm <sup>-1</sup> )	O-C (cm <sup>-1</sup> )	Leadir	ng perce	ntages <sup>a</sup>		
$4d^{2}(^{3}F)5s5p(^{1}P^{\circ})$	<sup>3</sup> D 1	145036.8	-282	39	28	(3F)5s5p 3D	11	( <sup>3</sup> P)5s5p <sup>3</sup> P
	2	145978.7	<b>608</b>	31	29	$({}^{3}\mathbf{F})5s5p {}^{3}\mathbf{D}$	14	$(^{3}P)5s5p^{-3}P$
	3	146972.3	<b>-924</b>	41	27	$(^{3}F)5s5p \ ^{3}D$	22	$(^{3}P)5s5p \ ^{3}D$
$4d^2(^3P)5s5p(^1P^\circ)$	$^{3}$ P 2	145347.6	-161	43	24	$(^{3}P)5s5p^{-3}P$	8	$(^{3}F)5s5p^{-3}D$
4d <sup>2</sup> ( <sup>1</sup> G)5s5p( <sup>3</sup> P°)	<sup>3</sup> F 4	146336.45	-211	52	23	(3F)5s5p 3F	14	( <sup>3</sup> F)5s5p <sup>3</sup> F
	3	146868.7	-302	90				
	2	147182.9	-254	77	13	$(^{3}P)5s5p \ ^{1}D$	3	$({}^{3}F)5s5p {}^{1}D$
$4d^2(^3\mathrm{P})5s5p(^3\mathrm{P}^\circ)$	¹D 2	148421.6	-158	50	18	$(^{1}G)5s5p^{-3}F$	18	$(^{3}F)5s5p^{-1}D$
$4d^2(^3P)5s5p(^3P^\circ)$	¹ <b>P</b> 1	150204.2	177	80	7	$(^{3}P)5s5p$ $^{3}S$	7	$(^{3}P)5s5p$ $^{3}S$
4d <sup>2</sup> ( <sup>3</sup> P)5s5p( <sup>1</sup> P°)	<sup>3</sup> S 1	151380.2	234	42	23	$(^{3}P)5s5p^{-3}S$	18	$(^{1}D)5s5p$ $^{1}P$
$4d^2(^1\mathbf{D})5s5p(^1\mathbf{P}^\circ)$	<sup>1</sup> F 3	153104.6	_5	82	3	$(^{3}F)5s5p^{-3}D$	3	$(^{3}F)5s5p^{-1}F$
$4d^2(^1G)5s5p(^1P^\circ)$	¹G 4	155674.86	250	94				
4d <sup>2</sup> ( <sup>1</sup> G)5s5p( <sup>1</sup> P°)	<sup>1</sup> H 5	159013.92	64	98				
$4d^2({}^{\scriptscriptstyle 1}\mathrm{G})5s5p({}^{\scriptscriptstyle 1}\mathrm{P}^{\scriptscriptstyle \circ})$	¹F 3	164339.5	<b>-99</b>	93				

<sup>&</sup>lt;sup>a</sup> The second and/or the third component has been omitted when the first one or two components amount to 90% or greater.

<sup>&</sup>lt;sup>b</sup> This level is not given the LS name corresponds to the largest eigenvector component.

Table 3. Classified lines of Mo III

Wavelength (Å)	Int.ª	Wavenumber	O-C	Classification	Wavelength	Int.ª	Wavenumber	0-C	Classification
(A)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J
836.749	1	119510.15	.005	36164 4 — 155674° 4	997.236	5	100277.16	004	34225 4 — 134502°
848.510	1	117853.64	.001	13928 2 — 131782° 1	997.332	1	100267.51	004	46601 4 — 146868°
855.135	2	116940.60	.000	36164 4 — 153104° 3	997.525	2	100248.11	006	43561 3 — 143809°
861.602	5bl	116062.86	.007	1223 3 — 117287° 4	997.598	20	100240.77	005	43461 3 — 143701°
872.802	5	114573.52	001	32398 4 — 146972° 3	997.661	10	100234.44	007	14357 2 — 114591°
875.221	10	114256.85	.000	32398 4 — 146655° 5	997.845	10	100215.96	007	16282 4 — 116497°
377.678	2	113937.00	.004	32398 4 — 146336° 4	998.423	1061	100157.94	007	44655 4 — 144812°
880.639	1	113553.90	006	32398 4 — 145951° 4	998.596	5	100140.59	005	43561 3 — 143701°
881.902	1	113391.28	.000	32587 3 — 145978° 2	998.646	30	100135.58	008	13948 3 — 114083°
885.640	I	112912.69	.007	51425 3 — 164339° 3	999.132	30	100086.87	008	13928 2 — 114014°
886.377	1	112818.81	.004	19973 6 — 132792° 5	999.760	1	100024.00	.000	43561 3 — 143585°
886.839	2	112760.03	.002	32587 3 — 145347° 2	1000.570	1	99943.03	004	242 1 — 100184°
888.982	10	112488.21	.001	32587 3 — 145075° 4	1000.765	5	99923.55	007	15871 3 — 115794°
898.355	5	111314.56	001	32387 2 — 143701° 3	1001.021	1	99898.00	007	51482 2 — 151380°
907.659	1h	110173.53	009	36164 4 — 146336° 4	1002.575	1	99743.16	007	43461 3 — 143204°
917.386	1	109005.37	.005	13811 6 — 122817° 5	1002.652	20	99735.50	006	46601 4 — 146336°
957.280	2	104462.64	.001	34225 4 — 138688° 4	1002.725	161	99728.24	.010	668 2 — 100397°
960.056	5	104160.59	.000	54853 5 — 159013° 5	1002.749	5b1	99725.85	004	14357 2 — 114083°
967.020	1	103410.47	.001	43561 3 146972° 3	1003.073	2	99693.64	.000	46962 5 — 146655°
969.021	2	103196.93	001	16282 4 — 119479° 3	1003.375	3	99663.63	001	19896 1 — 119559°
971.091	5	102976.96	001	52697 4 — 155674° 4	1003.592	5	99642.08	.002	43561 3 — 143204°
972.047	2h	102875.68	008	43461 3 — 146336° 4	1003.716	10	99629.77	002	19576 2 — 119206°
973.001	2	102774.81	001	43561 3 — 146336° 4	1004.054	5	99596.23	.002	32843 2 — 132439°
973.299	5	102743.35	004	11271 0 — 114014° 1	1004.086	10	99593.06	.006	19576 2 — 119170°
975.131	1	102550.32	006	13948 3 — 116497° 3	1004.000	10	77575.00	.000	34225 4 — 133818°
976.402	5	102416.83	.001	43561 3 — 145978° 2	1006.311	40	99372.85	002	35129 5 — 134502°
977.354	30	102317.07	001	44655 4 — 146972° 3	1006.403	5	99363.77	.002	32418 1 — 131782°
977.605	5	102290.80	.006	49088 2 — 151380° 1	1006.534	1	99350.84	004	46601 4 — 145951°
377.005	3	1022 30.00	001	42521 2 — 144812° 3	1006.942	2	99310.58	004 004	19896 1 — 119206°
979.041	1	102140.76	001 004	14357 2 — 116497° 3	1010.231	10	98987.26	.000	33452 3 — 132439°
980.387	10	102000.53	001	11655 A 146655 5	1010 474	20	00062.45	001	10407 7 1104518
981.131	20	101923.18	.008	44655 4 — 146655° 5 23183 2 — 125107° 1	1010.474	20	98963.45	001	19487 3 — 118451°
981.240	1	101923.18	003	41	1010.716		98939.76	006	32843 2 — 131782°
981.2 <del>40</del> 981.489	5			12679 4 — 114591° 3	1011.384	10	98874.41	.002	19576 2 — 118451°
981. <del>4</del> 85 981.685	1	101886.01 101865.67	.000 003	43461 3 — 145347° 2 13928 2 — 115794° 2	1011.453	20	98867.66	.000	20611 4 — 119479°
982.455	20	101785.83	003	43561 3 — 145347° 2	1014.515	2 5	98569.26	001	52811 1 — 151380°
983.466	30	101681.19	.000	44655 4 — 146336° 4	1015.093		98513.14	002	46299 3 — 144812°
984.511				12510 1 — 114083° 2	1017.205	2	98308.60	.000	16282 4 — 114591°
	10	101573.26	004		1018.210	5	98211.56	.003	15871 3 — 114083°
985.087 985.175	2 3	101513.87 101504.80	.001 —.003	43561 3 — 145075° 4 12510 1 — 114014° 1	1019.226	10	98113.66	007 001	46601 4 — 144812° 46962 5 — 145075°
								.552	
985.549	1	101466.28	007	15871 3 — 117336° 2	1020.693	1	97972.65	.002	53407 0 — 151380°
985.741	1	101446.52	003	35129 5 — 136575° 4	1025.535	1	97510.08	004	46299 3 — 143809°
986.669	5	101351.11	002	43461 3 — 144812° 3	1027.894	2	97286.29	001	46299 3 — 143585°
987.200	20	101296.59	.001	44655 4 — 145951° 4	1028.923	5	97189.00	.000	54191 2 — 151380°
987.646	30	101250.85	001	43561 3 — 144812° 3	1029.861	5	97100.48	002	46601 4 — 143701°
987.718	1	101243.47	003	33452 3 — 134695° 2	1031.760	1	96921.76	005	19576 2 — 116497°
989.471	10	101064.10	001	42521 2 — 143585° 2	1031.945	2	96904.38	.001	46299 3 143204°
989.720	2	101038.67	009	23183 2 — 124221° 1	1032.068	1	96892.84	.008	242 1 — 97135°
990.042	1	101005.81	007	16282 4 — 117287° 4	1034.688	2	96647.49	006	32418 1 129065°
990.880	5	100920.39	<b>004</b>	42665 2 — 143585° 2	1035.439	1	96577.39	002	42665 2 — 139243°
991.239	1	100883.84	005	46299 3 — 147182° 2	1036.053	1	96520.15	.008	44655 4 — 141176°
991.852	20	100821.49	.000	54853 5 — 155674° 4	1036.136	2	96512.42	.000	33452 3 — 129964°
993.224	20	100682.22	.000	42521 2 — 143204° 2	1036.336	40b1	96493.80	.007	242 1 — 96736°
993.766	2	100627.31	006	15871 3 — 116497° 3	1036.893	1	96441.96	007	35129 5 — 131570°
994.294	20	100573.87	004	16714 5 — 117287° 4	1038.020	2	96337.25	007 004	50318 5 — 146655°
994.645	5	100573.87	004 001	42665 2 — 143204° 2	1038.861	1	96259.26	004 004	
995.810	10	100338.38	001 003	44655 4 — 145075° 4					49088 2 — 145347°
				11	1039.253	1	96222.96	007	32843 2 129065°
996.300	5	100371.37	006	46601 4 — 146972° 3	1039.370	5	96212.12	002	32843 2 — 129055°
996.348 996.767	1 1	100366.53	004	33452 3 — 133818° 3	1039.782	30	96174.00	.001	50481 6 — 146655°
		100324.34	003	42521 2 — 142845° 1	1041.475	10	96017.66	.000	50318 5 — 146336°

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.a	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level $J$ Level $J$
1041.892	1	95979.23	006	46962 5 — 142940° 6	1080.333	20	92564.05	.001	32418 1 — 124982° (
1042.230	1	95948.11	.000	49088 2 — 145036° 1				004	13948 3 106511° 4
1042.903	5	95886.19	001	20611 4 — 116497° 3	1080.449	1	92554.11	002	668 2 — 93222° 1
1044.503	5	95739.31	001	34225 4 — 129964° 3	1080.893	20	92516.09	.001	32843 2 — 125359° 2
1044.668	1	95724.19	005	49088 2 — 144812° 3	1081.061	5	92501.71	.004	43461 3 135963° 2
			008	47978 2 — 143701° 3	1081.401	20	92472.63	.003	27006 3 119479° 3
1045.134	2	95681.51	003	43561 3 — 139243° 3	1081.499	1	92464.25	009	32519 1 124982° (
1045.992	5	95603.02	001	33452 3 — 129055° 2	1081.563	40	92458.78	.005	50481 6 142940° 6
1046.607	2	95546.84	005	51425 3 — 146972° 3	1081.777	lh	92440.49	004	42404 1 - 134844° 1
1046.742	1	95534.52	005	49541 4 — 145075° 4	1082.230	2	92401.80	.002	43561 3 — 135963° 2
1048.247	1	95397.36	004	32398 4 — 127795° 3	1083.020	10	92334.39	.002	33452 3 — 125786° 3
1049.208	2	95309.98	002	242 1 — 95551° 2	1083.332	30	92307.80	.004	34225 4 — 126533° 4
1049.596	1	95274.75	001	42521 2 — 137796° 3	1083.524	1	92291.44	009	42404 1 — 134695° 2
1049.640	5	95270.75	.001	49541 4 — 144812° 3	1083.843	40	92264.28	.001	32843 2 — 125107° 1
1051.487	5	95103.41	.000	19487 3 — 114591° 3	1084.297	1	92225.65	.001	1872 4 — 94098° 4
1052.576	1	95005.01	.003	46962 5 — 141967° 5				.001	52811 1 145036° 1
1053.547	1	94917.45	001	32418 1 — 127336° 2	1084.848	10	92178.81	.004	42665 2 — 134844° 1
1055.333	20	94756.82	.001	50318 5 — 145075° 4	1086.945	1	92000.97	001	12510 1 104511° 2
1056.252	1	94674.37	002	50362 1 — 145036° 1	1087.898	10	91920.38	.000	44655 4 — 136575° 4
1056.654	1	94638.35	001	56741 2 — 151380° 1	1088.057	30	91906.95	.003	33452 3 — 125359° 2
1057.614	2	94552.45	.004	51425 3 — 145978° 2	1089.473	1	91787.49	.000	54191 2 — 145978° 2
1057.909	2	94526.08	.000	51425 3 — 145951° 4	1090.207	20	91725.70	.004	46962 5 — 138688° 4
1058.127	5	94506.61	002	19576 2 — 114083° 2	1091.124	30	91648.61	.000	50318 5 — 141967° 5
1058.249	2	94495.71	.001	51482 2 — 145978° 2	1091.295	20	91634.25	.003	49541 4 — 141176° 4
1059.955	5	94343.62	.000	33452 3 — 127795° 3	1091.350	2	91629.63	003	53407 0 — 145036° 1
1060.958	10	94254.43	<b>001</b>	35129 5 — 129383° 4	1091.392	2	91626.10	.001	44655 4 — 136281° 3
1061.713	1	94187.41	004	19896 1 — 114083° 2	1092.164	40	91561.34	.001	34225 4 — 125786° 3
1062.022	20	94160.00	.003	49541 4 — 143701° 3	1092.934	10	91496.83	.001	46299 3 — 137796° 3
1062.100	2	94153.09	.000	23183 2 — 117336° 2	1093.549	1	91445.37	009	27006 3 — 118451° 2
1062.484	2	94119.06	004	19896 1 — 114014° 1	1093.719	2	91431.16	001	668 2 — 92099° 2
1064.714	1	93921.93	003	51425 3 — 145347° 2	1094.043	40	91404.08	001	35129 5 — 126533° 4
1065.146	2	93883.84	.000	33452 3 — 127336° 2	1094.297	2	91382.87	001	46962 5 — 138344° 5
1065.178	2	93881.02	004	42521 2 — 136402° 3	1095.218	1	91306.02	006	46299 3 — 137605° 4
1065.732	5	93832.22	.000	12679 4 — 106511° 4	1095.328	1	91296.85	003	42521 2 — 133818° 3
1066.816	5	93736.87	002	42665 2 — 136402° 3	1096.082	5	91234.05	003	43461 3 — 134695° 2
1067.984	1	93634.36	.001	42665 2 — 136300° 1	1096.551	5	91195.02	001	46601 4 — 137796° 3
1068.715	20	93570.31	.002	34225 4 — 127795° 3	1097.016	2	91156.37	.000	54191 2 — 145347° 2
1068.847	10	93558.76	.003	42404 1 — 135963° 2	1097.060	2	91152.71	001	42665 2 — 133818° 3
1068.901	1	93554.03	001	51482 2 — 145036° 1	1097.290	5	91133.61	.000	43561 3 — 134695° 2
1069.949	5	93462.39	001	56741 2 — 150204° 1	1097.539	1	91112.93	<b>005</b>	13928 2 — 105041° 1
1070.060	2	93452.70	.001	1223 3 — 94676° 3	1098.414	10	91040.35	.002	43461 3 134502° 4
1072.544	5	93236.26	.002	13275 5 — 106511° 4	1098.860	20	91003.40	.006	52697 4 — 143701° 3
1072.703	1	93222.44	001	0 0 — 93222° 1				.001	46601 4 — 137605° 4
1072.967	10	93199.51	.005	42521 2 — 135721° 2	1099.051	2	90987.58	.001	12679 4 — 103667° 3
			001	32587 3 — 125786° 3	1099.623	5	90940.25	.001	43561 3 — 134502° 4
1073.333	2	93167.73	001	52811 1 — 145978° 2	1099.889	20	90918.26	.000	34225 4 — 125143° 5
1074.620	1	93056.15	001	42665 2 — 135721° 2	1100.100	1	90900.82	006	42521 2 — 133422° 2
1075.498	1	92980.18	.002	242 1 — 93222° 1	1100.279	10	90886.03	.001	1872 4 — 92758° 3
1075.955	30	92940.69	.002	43461 3 — 136402° 3	1100.409	10	90875.30	.003	1223 3 — 92099° 2
			.001	32418 1 — 125359° 2	1100.628	10	90857.22	.002	50318 5 — 141176° 4
1077.112	5	92840.85	001	43561 3 — 136402° 3	1102.125	1	90733.81	003	42521 2 — 133255° 3
			009	32519 1 — 125359° 2	1103.230	5	90642.93	.001	46962 5 137605° 4
			.007	50362 1 — 143204° 2	1103.497	1	90620.99	.003	54191 2 — 144812° 3
1077.361	1	92819.39	.006	43461 3 — 136281° 3	1103.787	5	90597.18	002	12679 4 — 103276° 4
1077.537	2	92804.23	.000	1872 4 — 94676° 3	1103.877	10	90589.80	002	42665 2 — 133255° 3
1077.807	2	92780.99	.001	54191 2 — 146972° 3	1103.961	1	90582.91	006	13928 2 — 104511° 2
1078.520	5	92719.65	.007	32387 2 — 125107° 1	1104.201	2	90563.22	005	13948 3 — 104511° 2
			.001	43561 3 — 136281° 3	1104.320	30	90553.46	.001	33452 3 — 124005° 4
1078.875	10	92689.14	002	32418 1 — 125107° 1	1104.710	1	90521.49	<b>007</b>	16282 4 — 106803° 3
			.002	50318 5 — 142940° 6	1105.579	1	90450.34	.003	1223 3 — 91674° 2

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.ª	Wavenumber	0-C	Classification	Wavelength	Int.a	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J
1106 720	1	00257.00	004	43461 3 — 133818° 3	1121 614	40	88369.35	001	50318 5 — 138688° 4
1106.720 1106.857	20	90357.09 90345.90	.004	13275 5 — 103621° 5	1131.614 1131.861	5	88350.07	001 001	242 1 — 88592° 2
1100.837	1	90330.56	005	27006 3 — 117336° 2	1131.561	1	88279.95	001	1223 3 — 89503° 4
1107.243	i	90314.41	003	668 2 — 90982° 2	1133.083	30	88254.78	.001	49541 4 — 137796° 3
1108.287	2	90229.33	001	16282 4 — 106511° 4	1134.054	20	88179.22	003	12679 4 — 100858° 4
1109.087	30	90164.25	.000	32843 2 — 123007° 3	1134.583	20	88138.10	.002	58730 4 — 146868° 3
			009	1223 3 — 91387° 4				007	44655 4 — 132792° 5
1109.208	10	90154.41	002	49088 2 — 139243° 3	1134.773	20	88123.35	001	59059 2 — 147182° 2
1110.375	5	90059.66	.002	242 1 — 90301° 1	1136.241	2	88009.49	006	43561 3 - 131570° 4
1110.682	10	90034.77	.000	42404 1 — 132439° 2	1136.688	30	87974.88	.000	58893 3 — 146868° 3
			.001	52811 1 — 142845° 1					
					1137.236	1	87932.49	006	42521 2 — 130453° 3
1110.934	300	90014.34	002	35129 5 — 125143° 5	1137.350	10	87923.68	001	668 2 — 88592° 2
1111.097	100	90001.14	.001	13275 5 — 103276° 4	1137.872	30	87883.34	003	31323 2 — 119206° 1
1111.335	10	89981.86	.001	46299 3 — 136281° 3	1137.966	20	87876.08	.002	1223 3 — 89100° 4
			009	55366 1 — 145347° 2	1138.133	80	87863.19	.001	50481 6 — 138344° 5
1111.429	10	89974.25	002	46601 4 — 136575° 4	1138.728	20	87817.28	002	51425 3 — 139243° 3
1111.595	1	89960.82	003	43461 3 — 133422° 2			07000 10	.002	1872 4 — 89689° 5
1112.101	1	89919.89	.002	668 2 — 90588° 3	1138.833	1	87809.18	001	59059 2 — 146868° 3
1112.126	2	89917.86	004	668 2 — 90586° 2	1138.997	2	87796.54	004	15871 3 — 103667° 3
1112.621	40	89877.86	002 .001	42521 2 — 132439° 2 12679 4 — 102557° 3	1140.013	40	87718.29	004	12679 4 — 100397° 3
1112,021	40	89877.80	.001	12077 4 — 102337 3	1140.408	5	87687.91	002	35129 5 — 122817° 5
1113.006	5h	89846.77	.001	44655 4 — 134502° 4	1140.652	40b1	87669.15	002	42404 1 130073° 2
1113.060	1h	89842.41	004	32387 2 — 122229° 2	1140.691	60	87666.16	.000	33452 3 — 121118° 4
1113.460	200	89810.14	.001	13811 6 — 103621° 5				005	32398 4 — 120064° 3
			.009	32418 1 — 122229° 2	1141.139	1	87631.74	005	1872 4 — 89503° 4
1113.654	1h	89794.49	009	43461 3 — 133255° 3	1141.694	10	87589.14	.000	242 1 — 87831° 1
1113.828	200	89780.46	001	34225 4 — 124005° 4	1141.765	50h	87583.69	007	13275 5 — 100858° 4
1113.908	20	89774.02	004	42665 2 — 132439° 2	1142.178	10	87552.02	002	42521 2 — 130073° 2
1114.085	1h	89759.75	.002	42404 1 — 132164° 1	1142.333	20	87540.14	002	46962 5 — 134502° 4
1114.588	5	89719.25	001	13948 3 — 103667° 3	1142.607	5	87519.15	004	46299 3 — 133818° 3
1115.078	40	89679.82	.001	46601 4 — 136281° 3					
				_	1143.567	5	87445.68	001	48854 0 — 136300° 1
1115.536	1h	89643.00	003	42521 2 — 132164° 1	1143.733	50	87432.99	003	15871 3 103303° 2
1115.657	2	89633.28	.001	668 2 — 90301° 1	1144.058	50	87408.15	003	42665 2 — 130073° 2
1115.847	5	89618.02	.000	54191 2 — 143809° 3	1144.362	20	87384.93	003	16282 4 — 103667° 3
1115.903	30	89613.52	.001	46962 5 — 136575° 4	1144.584	20	87367.98	.002	1223 3 — 88592° 2 16282 4 — 103621° 5
1116.630	50 5	89555.17 89498.99	.002 002	33452 3 — 123007° 3 42665 2 — 132164° 1	1144.963	5bl 2	87339.06 87298.96	005 001	42665 2 — 129964° 3
1117.331	10		002 001	27006 3 — 116497° 3	1145.489 1145.652	60	87286.54	001 003	50318 5 — 137605° 4
1117.426 1117.615	40	89491.38 89476.25	.000	35129 5 — 124605° 6	1145.968	2	87262.47	003 004	51425 3 — 138688° 4
1117.013	40	89422.16	.001	46299 3 — 135721° 2	1146.379	10	87231.18	.001	242 1 — 87473° 2
1118.739	50	89386.35	001	32843 2 — 122229° 2	1140.017		0.201.10	.001	2,2 1 0,1,0 2
		0,000.00			1146.424	50	87227.76	001	1872 4 — 89100° 4
1118.848	10	89377.64	.002	42404 1 — 131782° 1	1146.507	40	87221.44	.001	58730 4 — 145951° 4
1119.044	5	89361.99	.001	1223 3 — 90586° 2				.000	32843 2 120064° 3
			.000	59059 2 — 148421° 2	1146.637	10	87211.55	001	49088 2 - 136300° 1
1119.118	1	89356.08	005	13948 3 — 103303° 2	1147.278	40	87162.83	001	668 2 — 87831° 1
1119.460	2	89328.78	004	13948 3 — 103276° 4	1147.549	2	87142.24	.000	668 2 — 87810° 3
1119.755	50	89305.25	002	32418 1 — 121723° 1	1147.732	40	87128.35	003	31323 2 — 118451° 2
1120.308	1	89261.16	006	42521 2 — 131782° 1	1147.805	5	87122.81	003	46299 3 — 133422° 2
1121.359	5	89177.50	.004	1872 4 — 91050° 3	1148.358	5	87080.85	003	32398 4 — 119479° 3
1121.751	10	89146.34	.001	49541 4 — 138688° 4	1148.656	2	87058.26	001	58893 3 — 145951° 4
1121.838	10	89139.43	.005	0 0 — 89139° I					
					1148.892	20	87040.38	002	32519 1 — 119559° 0
1124.689	1	88913.46	008	11271 0 — 100184° 1	1148.973	10	87034.24	003	49541 4 — 136575° 4
1124.889	10	88897.66	.001	242 1 — 89139° 1	1150.005	5	86956.14	004	46299 3 — 133255° 3
1125.107	20	88880.43	.001	32843 2 — 121723° 1	1150.607	30	86910.64	003	13948 3 — 100858° 4
1125.156	10	88876.56	003	35129 5 — 124005° 4	1150.651	60	86907.32	004	16714 5 — 103621° 5
1126.350	20	88782.35	002	34225 4 — 123007° 3	1150.851	30	86892.22	001	32587 3 — 119479° 3
1126.412	20	88777.46	002	33452 3 — 122229° 2	1161 000	10	0.6074.00	001	43561 3 — 130453° 3
1128.292	2	88629.53	007	13928 2 — 102557° 3	1151.080	10	86874.93	.000	49088 2 — 135963° 2
1128.774	50	88591.69	.002	34225 4 — 122817° 5	1151.822	5	86818.97	003	32387 2 — 119206° 1
1130.217	10	88478.58	004	52697 4 — 141176° 4	1152.011	40	86804.72	.002	668 2 — 87473° 2
1130.308	5	88471.46	001	668 2 — 89139° 1					

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.a	Wavenumber	o-c	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J
152.716	40	86751.63	.000	32418 1 — 119170° 2	1169.319	500	85519.86	008	1872 4 — 87391°
152.871	1	86739,97	002	49541 4 — 136281° 3	1169.678	10	85493.61	002	43561 3 — 129055°
153.093	40	86723.27	.001	668 2 — 87391° 3	1170.074	5	85464.68	.000	11271 0 — 96736°
153.170	1	86717.48	007	47978 2 — 134695° 2				001	19576 2 — 105041°
153.577	40	86686.88	.000	32519 1 — 119206° 1	1170.400	200	85440.87	.003	242 1 — 85683°
			006	15871 3 — 102557° 3	1171.175	10	85384.33	.000	13928 2 — 99313°
154.016	5	86653.91	001	46601 4 — 133255° 3	1173.669	500	85202.89	001	1223 3 — 86426°
1154.376	2	86626.88	002	1872 4 — 88499° 3	1174.399	5	85149.93	- 002	51425 3 — 136575°
1154.573	40	86612.10	.000	43461 3 — 130073° 2	1174.463	5	85145.29	.000	19896 1 — 105041°
			.005	33452 3 — 120064° 3	1174.675	2	85129.93	.002	42665 2 — 127795°
1154.915	40	86586.45	.003	1223 3 — 87810° 3	1175.109	20	85098.48	.001	52697 4 — 137796°
1155.233	200	86562.62	004	16714 5 — 103276° 4	1175.382	30	85078.72	.001	58730 4 — 143809°
1155.483	1051	86543.89	001	42521 2 — 129065° 1	1175.551	30	85066.49	.006	242 1 — 85308°
155.624	20	86533.33	.000	42521 2 — 129055° 2	1176.148	5	85023.31	001	19487 3 — 104511°
1155.912	20	86511.77	.002	43561 3 — 130073° 2	1176.194	1	85019.98	.002	1872 4 — 86892°
1156.028	2	86503.09	001	43461 3 — 129964° 3	1176.273	200	85014.27	.005	668 2 — 85683°
1156.483	20	86469.06	001	13928 2 — 100397° 3	1176.644	1	84987.47	.000	15871 3 — 100858°
1156.742	80	86449.70	004	13948 3 100397° 3	1176.791	10	84976.85	004	51425 3 — 136402°
1157.370	20	86402.79	.001	43561 3 — 129964° 3	1176.899	80	84969.05	.002	46601 4 — 131570°
1157.404	1	86400.25	005	42665 2 — 129065° 1	1177.173	20	84949.28	.000	32387 2 — 117336°
158.390	2	86326.71	.004	32843 2 — 119170° 2	1177.378	20	84934.49	.000	19576 2 — 104511°
1158.439	10b1	86323.06	003	54853 5 — 141176° 4	1177.759	30	84907.01	.002	52697 4 — 137605°
1158.863	30	86291.47	003	13928 2 100219° 2	1178.012	200	84888.77	.002	32398 4 — 117287°
1159.082	50	86275.17	003	16282 4 — 102557° 3	1179.006	10	84817.21	.003	32519 1 — 117336°
1159.126	20	86271.89	003	13948 3 — 100219° 2				.002	51482 2 — 136300°
1159.336	30	86256.27	004	13928 2 — 100184° 1	1179.045	10	84814.40	003	42521 2 - 127336°
			.008	50318 5 — 136575° 4	1179.262	5	84798.79	002	51482 2 — 136281°
1159.431	200	86249.20	.002	1223 3 — 87473° 2	1179.948	10	84749.49	.002	59059 2 — 143809°
1160.206	100	86191.59	.002	20611 4 — 106803° 3				002	32587 3 — 117336°
			004	46601 4 — 132792° 5	1180.237	50	84728.74	003	44655 4 — 129383°
1160.302	100	86184.45	.004	242 1 — 86426° 2	1180.631	20	84700.46	<b>001</b>	32587 3 — 117287°
1160.528	500	86167.67	.002	1223 3 — 87391° 3	1180.749	20	84692.00	.000	58893 3 — 143585°
1160.906	1	86139.61	.004	46299 3 — 132439° 2	1180.805	10	84687.98	002	48734 1 — 133422°
1161.302	20	86110.24	.004	48734 1 — 134844° 1	1181.050	5	84670.42	002	42665 2 — 127336°
1161.689	1	86081.55	.006	58730 4 — 144812° 3	1181.175	10	84661.46	.001	668 2 — 85329°
1161.703	5	86080.52	.001	242 1 — 86322° 0	1181.468	10	84640.46	.000	668 2 — 85308°
1161.925	2	86064.07	004	32387 2 — 118451° 2	1181.558	2	84634.01	005	13928 2 - 98562°
1162.105	30	86050.74	.001	33155 0 — 119206° 1	1181.831	10	84614.46	005	13948 3 — 98562°
1162.479	5	86023.05	.007	13928 2 — 99952° 2				.009	19896 1 104511°
1162.736	10	86004.04	001	13948 3 — 99952° 2	1181.911	40	84608.74	001	46962 5 — 131570°
1162,925	10	85990,06	.004	48854 0 134844° 1	1182.364	20	84576.32	005	16282 4 — 100858°
	••	22770120	.001	52697 4 — 138688° 4	1182.902	10	84537.85	001	51425 3 — 135963°
1163.318	20	85961.01	.001	48734 1 — 134695° 2	1183.059	20	84526.63	002	15871 3 — 100397°
1163.630	500	85937.97	.003	1872 4 — 87810° 3	1105.007		0.000	006	59059 2 — 143585°
11051050	500	03737171	005	50362 1 — 136300° 1	1183.357	20	84505.35	004	12679 4 — 97184°
1163.711	50	85931.98	001	32519 1 — 118451° 2	1183.676	1	84482.57	004	50362 1 — 134844°
1163.893	10	85918.55	.002	58893 3 — 144812° 3	1183.836	1	84471.16	003	31323 2 — 115794°
1164,144	20	85900.02	.001	20611 4 — 106511° 4	1183.976	1	84461.17	002	47978 2 — 132439°
1164.376	40	85882.91	003	12679 4 — 98562° 3	1184.359	20	84433.85	004	13275 5 — 97709°
1164.634	20	85863.88	.000	32587 3 — 118451° 2	1185.552	200	84348.89	002	15871 3 — 100219°
1165.002	100	9592070	001	46962 5 — 132792° 5	1185.757	5h	84334.31	001	43461 3 — 127795°
1165.083	100 5	85830.79 85827.25		14357 2 — 100184° 1	1186.093	20	84334.31	001 003	58893 3 — 143204°
1165.131		85827.25 85822.17	002 002	43561 3 — 129383° 4			84276.88	003 002	49541 4 — 133818°
1165.200	10	85822.17			1186.565	10 5		002 004	43561 3 — 127795°
1165.520	5 200	85798.61 85758.36	.000	44655 4 — 130453° 3	1187.163		84234.43 84205.20		14357 2 — 98562°
1166.067	300	85758.36	.000	668 2 — 86426° 2	1187.575	5		005	
1167.093	100	85682.97	.002	0 0 — 85683° 1	1187.841	1	84186.35	003	47978 2 — 132164°
1168.126	30	85607.20	007	49088 2 — 134695° 2	1187.934	20	84179.76	004	19487 3 — 103667°
1168,200	1	85601.78	009	50362 1 — 135963° 2	1188.113	1	84167.07	006	49088 2 — 133255°
1168.305	5	85594.08	.008	14357 2 — 99952° 2	1188.230	200	84158.79	002	12679 4 — 96838° 46299 3 — 130453°
			007	43461 3 — 129055° 2	1188.289	50	84154.61	004	

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.ª	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J
1188.430	200	84144.62	003	59059 2 — 143204° 2	1208.313	20	82760.01	001	31323 2 — 114083° 2
			005	16714 5 — 100858° 4	1208.379	1	82755.49	.002	46299 3 129055° 2
1188.846	200	84115.18	003	16282 4 — 100397° 3	1208.435	50	82751.65	.001	54853 5 — 137605° 4
1188.909	20	84110.72	003	32387 2 — 116497° 3	1209.281	30	82693.76	.000	49088 2 — 131782° 1
1188.974	40	84106.12	001	1223 3 — 85329° 2				002	42665 2 — 125359° 2
1189.070	50	84099.33	004	32398 4 116497° 3	1209.317	30	82691.30	002	15871 3 98562° 3
1189.192	20	84090.71	.000	19576 2 — 103667° 3				.005	31323 2 114014° 1
			004	64331 3 — 148421° 2	1209.602	200	82671.82	.003	1872 4 — 84544° 4
1189.325	30	84081.30	003	15871 3 — 99952° 2	1209.704	10	82664.85	.000	20611 4 — 103276° 4
1190.839	5	83974.40	001	242 1 — 84216° 0	1209.756	20	82661.29	002	13928 2 — 96589° 2
1191.760	300	83909.51	004	13275 5 — 97184° 4	1210.042	50	82641.76	002	13948 3 — 96589° 2
1191.922	100	83898.10	003	13811 6 — 97709° 5	1210.974	20	82578.15	001	42404 1 — 124982° 0
1192.208	20	83877.98	003	52697 4 — 136 <i>5</i> 75° 4	1212.032	40	82506.07	.000	12510 1 — 95016° 1
1192.571	30	83852.45	002	46601 4 — 130453° 3	1212.405	20	82480.68	.001	14357 2 — 96838° 3
1192.819	30	83835.01	004	54853 5 — 138688° 4	1212.506	300	82473.81	.003	50318 5 — 132792° 5
			.008	33452 3 — 117287° 4				.005	13811 6 — 96285° 5
1193.082	10	83816.53	006	19487 3 — 103303° 2	1212.976	10	82441.86	.001	42665 2 — 125107° 1
1193.471	20	83789.21	005	19487 3 — 103276° 4	1213.037	20	82437.71	001	11271 0 — 93709° 1
1193.512	20	83786.33	001	59059 2 — 142845° 1	1213.273	20	82421.68	.001	46962 5 — 129383° 4
1194.347	10	83727.76	006	19576 2 — 103303° 2	1213.705	10	82392.34	.002	51425 3 — 133818° 3
1195.241	5	83665.13	001	46299 3 — 129964° 3	1214.177	20	82360.31	.004	1223 3 — 83584° 3
1195.483	20	83648.19	005	19973 6 — 103621° 5	1214.545	5	82335.36	.003	51482 2 — 133818° 3
1195.705	20	83632.66	004	13275 5 — 96907° 6	1214.695	20	82325.19	.000	43461 3 — 125786° 3
1195.883	10	83620.22	004 004	23183 2 — 106803° 3	1214.902	50	82311.16	.001	50481 6 — 132792° 5
1197.760	2	83489.18	004 001	52811 1 — 136300° 1	1214.902	10	82279.53	.001	16282 4 — 98562° 3
1198.603	20	83430.46	001 003	48734 1 — 132164° 1	1215.422	10	82275.95	.002	
1198.943	50	83406.80	003 003	32387 2 — 115794° 2	1215.422	5	82273.93 82232.31	.003	12679 4 — 94955° 4
1199.587	10	83362.02	.000	51482 2 — 134844° 1					14357 2 — 96589° 2
1199.747	10	83350.90	002	49088 2 — 132439° 2	1216.176	20	82224.94	.001	43561 3 — 125786° 3
1200.186	30	83320.41	.002	1223 3 — 84544° 4	1216.493 1216.665	10 200	82203.51 82191.89	.004 .007	32387 2 — 114591° 3 32398 4 — 114591° 3
1200.258	100 2	83315.42	.001	36164 4 — 119479° 3	1217.901	10	82108.48	.007	54191 2 — 136300° 1
1200.841		83274.97	004	32519 1 — 115794° 2	1218.371	1	82076.80	.002	50362 1 — 132439° 2
1200.919	20	83269.56	001	51425 3 — 134695° 2	1219.083	10	82028.86	.004	49541 4 — 131570° 4
1200.982	20	83265.19	003	42521 2 — 125786° 3	1219.459	100	82003.57	.005	32587 3 — 114591° 3
1201.182	1	83251.33	002	49541 4 — 132792° 5	1219.569	10h	81996.18	.002	51425 3 — 133422° 2
1201.389	2	83236.98	001	58730 4 — 141967° 5	1220.248	20	81950.55	.000	11271 0 93222° 1
	40		007	13948 3 — 97184° 4	1220.321	2	81945.65	.002	20611 4 — 102557° 3
1201.826	40	83206.72	001	32587 3 — 115794° 2	1220.590	1	81927.59	.002	13928 2 — 95856° 3
1202.259	100	83176.75	.000	12679 4 — 95856° 3	1220.879	100	81908.19	.000	13948 3 — 95856° 3
1202.781	5	83140.65	001	44655 4 — 127795° 3	1221.037	1	81897.60	.003	43461 3 — 125359° 2
1203.061	80	83121.30	004	42665 2 — 125786° 3	1221.239	1	81884.05	.004	52811 1 — 134695° 2
1203.416	100	83096.78	001	13811 6 — 96907° 6	1221.333	5	81877.75	004	12510 1 — 94387° 2
1203.718	40	83075.93	001	49088 2 — 132164° 1				.007	44655 4 — 126533° 4
			.004	51425 3 — 134502° 4	1221.427	5	81871.45	.004	668 2 — 82540° 2
1203.776	100	83071.93	001	43461 3 — 126533° 4	1222.467	5	81801.79	.003	50362 1 — 132164° 1
1204.019	5	83055.16	.005	20611 4 — 103667° 3	1222.526	5	81797.85	.003	43561 3 — 125359° 2
1204.124	5	83047.92	.004	48734 1 — 131782° 1	1222.758	60	81782.33	.001	12510 1 — 94292° 1
1204.215	30	83041.65	001	12510 1 — 95551° 2	1223.659	50	81722.11	.004	54853 5 — 136575° 4
1204.513	5	83021.10	004	11271 0 — 94292° 1	1223.814	30	81711.76	.004	1872 4 — 83584° 3
1204.676	30	83009.87	.000	13275 5 — 96285° 5	1224.058	60	81695.47	.002	32387 2 — 114083° 2
			005	20611 4 — 103621° 5					
1205.094	10	82981.07	001	19576 2 — 102557° 3	1224.284 1224.783	60 1	81680.39 81647.11	001 .006	13275 5 — 94955° 4 64331 3 — 145978° 2
1205.228	20	82971.85	001 002	43561 3 — 126533° 4	1225.083	200		.003	32387 2 114014° 1
1205.228	20	82954.71	.002	42404 1 — 125359° 2		100	81627.12 81623.12		
1205.536	1	82950.65			1225.143		81623.12	.000	13928 2 — 95551° 2
			.001	32843 2 — 115794° 2	1225.436	300	81603.60	001	13948 3 — 95551° 2
1206.040	5 20	82915.99	.001	668 2 — 83584° 3	1227.011	100	81498.86	.000	14357 2 — 95856° 3
1206.131	20	82909.73	001	13928 2 — 96838° 3	1227.061	100	81495.54	.002	32587 3 — 114083° 2
1206.979	10	82851.48	.004	64331 3 — 147182° 2	100-00-	_		002	32519 1 — 114014° 1
1207.181	20	82837.61	.000	42521 2 — 125359° 2	1227.933	5	81437.66	.003	12679 4 — 94117° 3
1207.611	1 10	82808.12	005	13928 2 — 96736° 1				003	53407 0 — 134844° 1
1207.989		82782.21	.000	46601 4 — 129383° 4					

Table 3. Classified lines of Mo III--Continued

Wavelength	Int.a	Wavenumber	o-c	Classification	Wavelength	Int.a	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J
1228.101	40	81426.52	002	16282 4 — 97709° 5	1246.157	5	80246.71	.001	20611 4 — 100858° 4
1228.226	200	81418.24	.005	12679 4 — 94098° 4	1246.814	40	80204.42	.001	12679 4 — 92884° 5
1228.943	100	81370.73	.001	19487 3 — 100858° 4	1247.059	1	80188.66	.003	13928 2 — 94117° 3
1229.028	1	81365.11	.001	49088 2 — 130453° 3	1247.662	30	80149.91	.001	13948 3 — 94098° 4
1229.807	30	81313.57	.000	15871 3 — 97184° 4	1247.743	10	80144.70	.003	51425 3 — 131570° 4
1230.390	300	81275.04	.003	1872 4 — 83147° 5	1247.861	200	80137.13	.004	1872 4 — 82009° 4
1230.743	30	81251.73	.004	50318 5 — 131570° 4	1248.127	300	80120.05	.004	23183 2 — 103303° 2
1230.929	10	81239.45	.005	32843 2 — 114083° 2	1248.771	200	80078.73	.003	12679 4 — 92758° 3
1231.540	10	81199.14	.001	12510 1 — 93709° 1	1249.124	10	80056.10	.002	19896 1 — 99952° 2
1231.614	80	81194.27	.000 .000	46601 4 — 127795° 3 14357 2 — 95551° 2	1249.526	200	80030.34	.004 003	13275 5 — 93306° 6 14357 2 — 94387° 2
1231.962	5	81171.33	.002	32843 2 — 114014° 1	1249.958	50	80002.68	.000	16282 4 — 96285° 5
1232.689	20	81123.46	.005	36164 4 — 117287° 4	1250.232	60	79985.15	.001	15871 3 — 95856° 3
1232.740	30	81120.10	.005	52697 4 — 133818° 3	1250.360	10h	79976.96	001	49088 2 — 129065° 1
1233.234	300	81087.61	.000	13928 2 95016° 1	1250.525	50	79966.41	.001	49088 2 — 129055° 2
			007	47978 2 — 129065° 1				004	62879 0 — 142845° 1
1233.403	5	81076.50	.003	47978 2 — 129055° 2	1250.665	10	79957.46	.003	58730 4 — 138688° 4
1234.015	40	81036.29	.002	46299 3 — 127336° 2	1251.014	40	79935.15	001	14357 2 — 94292° 1
1234.321	5	81016.20	.003	64331 3 — 145347° 2	1252.475	1	79841.91	.004	49541 4 — 129383° 4
1234.648	100	80994.74	001	16714 5 — 97709° 5	1252.716	200	79826.55	001	13275 5 — 93102° 4
1235.071	200	80967.00	.002	15871 3 — 96838° 3	1252.873	80	79816.55	.003	1223 3 — 81040° 3
1235.910	40	80912.04	.003	49541 4 — 130453° 3	1253.181	60	79796.93	.001	27006 3 — 106803° 3
1235.941	30	80910.01	004	19487 3 — 100397° 3	1253.221	10b1	79794.38	002	58893 3 — 138688° 4
1236.065	300	80901.89	.003	16282 4 97184° 4	1253.355	40	79785.85	001	20611 4 — 100397° 3
1236.465	30	80875.72	.003	49088 2 — 1299 <b>64°</b> 3	1253.432	80	79780.95	003	13928 2 — 93709° 1
1237.278	30	80822.58	.003	13275 5 — 94098° 4	1253.759	60	79760.14	002	14357 2 — 94117° 3
1237.301	100	80821.07	001	19576 2 — 100397° 3	1254.133	40	79736.36	.000	19576 2 — 99313° 1
1237.846	100	80785.49	.007	1223 3 — 82009° 4	1254.485	30	79713.98	003	13928 2 — 93642° 2
1238.424	1	80747.78	.004	13928 2 — 94676° 3	1254.586	1 <b>h</b>	79707.56	.002	42521 2 — 122229° 2
1238.669	1	80731.81	.005 .004	72356 2 — 153104° 3 19487 3 — 100219° 2	1254.794 1254.925	40 300	79694.35 79686.03	002 .000	13948 3 — 93642° 2 668 2 — 80354° 3
1238.720	20	80728.49	001	13948 3 — 94676° 3	1255.010	80	79680.64	001	15871 3 — 95551° 2
1238.868	30	80718.85	002	15871 3 — 96589° 2	1255.517	2	79648.46	.005	54853 5 — 134502° 4
1238.973	60	80712.00	.002	12510 1 — 93222° 1	1255.836	5	79628.23	.003	52811 1 — 132439° 2
1239.442	1	80681.46	.004	51482 2 — 132164° 1	1256.144	300	79608.70	001	13275 5 — 92884° 5
1239.787	10	80659.01	004	14357 2 — 95016° 1	1256.451	100	79589.25	.001	12510 1 — 92099° 2
1240.029	20	80643.27	.001	19576 2 — 100219° 2	1256.681	100	79574.68	.002	12679 4 — 92254° 5
1240.226	1	80630.46	.006	33452 3 — 114083° 2	1256.742	500	79570.82	.003	16714 5 — 96285° 5
1240.501	200	80612.59	.004	13811 6 94424° 7	1256.856	2	79563.61	.003	42665 2 — 122229° 2
1240.574	1	80607.84	.002	19576 2 — 100184° 1	1257.141	1h	79545.57	.006	43461 3 — 123007° 3
1241.355	2061	80557.13	.005	52697 4 — 133255° 3	1257.784	2	79504.90	.007	27006 3 — 106511° 4
1241.377	100	80555.70	001	16282 4 — 96838° 3	1257.946	200	79494.66	.004	13811 6 — 93306° 6
1241.557	5	80544.02	.002	43461 3 — 124005° 4	1258.600	100	79453.36	.001	13275 5 — 92728° 6
1242.046	30	80512.31	.003	58730 4 — 139243° 3	1259.176	40	79417.01	.000	19896 1 — 99313° 1
1242.490	10	80483.54	.002	23183 2 — 103667° 3	1259.862	1	79373.77	.003	23183 2 — 102557° 3
1242.695	200	80470.26	.002	16714 5 — 97184° 4	1260.185	2	79353.42	.002	52811 1 — 132164° 1
1242.787	10	80464.31	.001	19487 3 — 99952° 2	1260.209	2	79351.91	.000 .001	14357 2 — 93709° 1 55366 1 — 134695° 2
1242.868 1243.173	20 60	80459.06 80439.32	001 .002	13928 2 — 94387° 2 139★ 3 — 94387° 2	1260.575 1261.133	5 20	79328.87 79293.77	002	13928 2 — 93222° 1
1243.173	300	80422.31	.002	12679 4 — 93102° 4	1261.133	500	79225.80	.002	242 1 — 79467° 2
1244.168	20	80374.99	.009	19576 2 — 99952° 2	1262.861	2	79185.27	001	46601 4 — 125786° 3
1244.213	60	80372.09	.002	668 2 — 81040° 3	1263.135	20	79168.10	.002	1872 4 — 81040° 3
1244.339	60	80363.95	.000	13928 2 — 94292° 1	1263.202	1	79163.90	.007	12510 1 — 91674° 2
1244.569	5	80349.10	.001	58893 3 — 139243° 3	1263.737	300	79130.38	.002	1223 3 — 80354° 3
1244.684	5	80341.67	.002	42665 2 — 123007° 3	1264.465	20	79084.83	003	15871 3 — 94955° 4
1244.809	20	80333.60	.005	36164 4 — 116497° 3	1264.653	200	79073.07	001	13811 6 — 92884° 5
1244.845	40	80331.28	.000	48734 1 — 129065° 1	1265.339	50	79030.20	003	11271 0 — 90301° 1
1244.960	60	80323.86	.002	19896 1 — 100219° 2	1266.047	40	78986.00	005	19576 2 — 98562° 3
1245.012	20	80320.51	.006	48734 1 — 129055° 2	1266.159	500	78979.02	.000	13275 5 — 92254° 5
1245.033	40	80319.15	.000	14357 2 — 94676° 3	1266.286	20	78971.10	001	51482 2 — 130453° 3
1245.508	5	80288.52	.002	19896 1 — 100184° 1				.005	52811 1 — 131782° 1

Table 3. Classified lines of Mo III-Continued

1266.664   300   78947.53   .004   0 0 - 78947   1   1265.568   300   777726.16   .002   13948   3 - 91674   1267.139   800   78917.54   .003   13811   6 - 92728   6   1286.877   1   77706.29   .001   46299   3 - 124062   1267.387   1   78902.44   .001   58891   3 - 137696   3   1286.787   1   77706.29   .001   46299   3 - 124062   1267.387   1   7894.34   .004   58729   4 - 137695   4   1287.053   2   77968.166   .004   58893   3 - 136075   1287.878   2   2   2   2   2   2   2   2   2	Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.a	Wavenumber	0-C	Classification
1267.139   500   78917.94	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level $J$ Level $J$
1267.383	1266.664	300	78947.53	.004	0 0 — 78947° 1	1286.568	300	77726.16	.002	13948 3 — 91674° 2
1267.389		800								46299 3 — 124005° 4
1267.887   20										19487 3 — 97184° 4
1267.995   200   7888-166   .002   14357   2   932221   1   1287.718   21   77656.75   .000   43461   3   -121118'   1288.393   200   78810.90   .000   6868   2   799818'   3   1287.818   128   77656.75   .000										58893 3 — 136575° 4
1268,393   20										
1268.551   20   78810.09   -0.00   13928   2 - 92758' 3   1288.09   300   7763.59   .004   1372   4 - 79898'   1268.494   80   78805.74   -0.00   15871   3 - 94676' 3   1288.257   300   7762.96   .006   1372   4 - 79497'   1269.494   7 - 79497'   1269.494   7 - 79497'   1269.494   7 - 79497'   1269.494   7 - 79497'   1269.494   7 - 79497'   1269.494   7 - 79497'   1270.051   20   7373.69   -0.00   1270.494   1270.515   1288.059   2 - 137376'   3   1288.059   2 - 77582.52   .004   13428   2 - 1290.55'   1270.051   20   7373.69   -0.00   12679   4 - 91387'   1270.521   500   7370.69   -0.00   12679   4 - 91387'   1270.521   500   7370.69   -0.00   12679   4 - 91387'   1270.521   500   7370.69   -0.00   12679   4 - 91387'   1270.521   1270.521   500   7370.69   -0.00   12679   4 - 91387'   1270.051   500   7370.69   -0.00   12679   4 - 91387'   1270.052   500   7370.69   -0.00   12679   4 - 91387'   1270.052   500   7370.69   -0.00   12679   4 - 91387'   1270.052   500   7370.69   -0.00   12679   4 - 91387'   1270.052   500   7370.69   -0.00   12679   4 - 91387'   1270.052										
1268.497   200   78810.46   -002   13948   3 - 92758' 3   1288.179   200   7763.296   .006   51425   3 - 129055' 1269.490   10   78771.79   .002   242   1 - 79015' 2   1288.279   300   7763.296   .006   13427   4 - 79497' 121270.651   200   7879.288   .003   668   2 - 7946' 2   1288.974   200   77575.06   .005   12679   4 - 903.55' 1270.521   500   7870.86   -001   12679   4 - 91387' 4   1290.253   10   7750.41   .006   27006   3 - 104511' 1270.652   500   7870.86   -001   12679   4 - 91387' 4   1290.253   10   7750.41   .006   27006   3 - 104511' 1271.070   50   78677.77   .003   0   0   78677.17   .003   0   0   78677.17   .003   0   0   78677.17   .004   1271.020   1271.020   10   78673.31   .003   1622   4   79495' 4   1292.193   500   77439.61   .006   27006   3 - 104511' 1271.092   1   78647.76   .001   51425   3 - 130073' 2   1292.397   10   77380.99   -0.01   47778   2 - 125359' 1273.260   40   785318.55   .003   51425   3 - 129964' 3   1293.379   80   77316.85   .002   14357   2 - 91674' 1274.036   .007   78413.77   .002   1372   4   80054' 3   1294.40   100   7725.36   .004   19789   3 - 96383' 1274.036   .007   78413.78   .002   1372   4   80054' 3   1294.40   100   7725.36   .004   19789   3 - 96383' 1275.40   .001   1275.40   .001   .										
1268,944   80   7895,574   -0.00   15871   3 - 94676' 3   1288,357   300   7762,426   .006   1872   4 - 79497' 2   .1269,490   10   73771,79   .002   242   1 - 79497' 2   .1288,974   200   77375,06   .005   .12679   4 - 90355' 2   .1289,074   200   77375,06   .005   .12679   4 - 90355' 2   .1289,074   200   77370,60   .007   .1270,072   .008   .008   .1270,072   .1289,074   .007   .1270,072   .008   .008   .1270,072   .1289,074   .009   .1270,072   .1289,074   .009   .1270,072   .1289,074   .009   .1270,072   .1289,074   .009   .1270,072   .1289,074   .009   .1270,072   .1289,074   .009   .1289,074   .1290,075   .1289,074   .009   .1270,072   .1289,074   .009   .1289,074   .1289,074   .009   .1289,074   .009   .1289,074   .1289,074   .009   .1289,074   .1289,074   .009   .1289,074   .1										
1269.047   200										
1269.490   10   73717.79   002   242   1 - 79013   2   1289.074   200   77572.44   0.00   12679   4 - 90257   1270.521   500   73707.86   0.001   12679   4 - 91387   4   1270.752   1270.752   500   73707.86   0.001   12679   4 - 91387   4   1290.253   10   77592.41   0.006   27006   3 - 105111   1270.752   00   7867.71   0.003   0.004   78677   1   1290.253   10   77592.41   0.006   27006   3 - 105111   1271.079   100   78673.31   0.003   0.004   78678   1   1291.337   10   77489.64   0.002   13948   3 - 91387   1271.273   10   7489.11   0.002   13948   3 - 91387   1271.273   10   7489.11   0.002   13948   3 - 91387   1272.237   40   78681.76   0.001   51425   3 - 139075   4   1292.237   10   7738.099   0.001   47978   2 - 123359   1272.237   40   78681.78   0.003   1872   3 - 129964*   3   1293.379   80   77316.85   0.002   14375   2 - 91674   1292.3379   80   77316.85   0.002   14375   2 - 91674   1292.3379   80   77316.85   0.002   14375   2 - 91674   1292.3379   80   77316.85   0.002   14375   2 - 91674   1292.3379   80   77316.85   0.002   14375   2 - 91674   1292.438   1292.4	1208.943	80	78803.74	003	138/1 3 — 940/0 3	1200.237	300	77024.20	.000	1872 4 — 79497 4
1270.561   20	1269.047	200	78799.28	.003	668 2 — 79467° 2	1288.950	2	77582.52	.004	51482 2 — 129065° 1
1270.521   500   78707.86   -0.001   12679   4 - 91387   4   1290.253   10   7759.17   .0.06   27006   3 - 104517   .0.07	1269.490	10	78771.79	.002	242 1 — 79013° 2	1289.074	200	77575.06	.005	12679 4 — 90255° 4
1270.762   60		20								51482 2 — 129055° 2
1271.007   50   78677.77   .003   0   -78677   1   1291.337   10   77439.11   .002   13948   3   91387   1271.1492   1   78647.76   .001   51425   3 - 130975   2   1292.18   20   77387.52   .001   19487   3   96838   1272.237   40   78601.70   .000   4873   1   1273.6   2   1292.8   2   2   2   2   2   2   2   2   2					11					27006 3 — 104511° 2
1271,079   100										668 2 — 78158° 3
1271,492   1 78647.76   .001 51425 3 - 130073 2   1292,307 10   77380.99   .001   47978 2 - 125359   1272,2376   40 78601.70   .000 48734   1 - 127336 2   1292,818   20 77350.00   .001   47978 2 - 125359   1273,260   40 78538.55   .003   51425 3 - 129964 3   1293,379   80 77316.85   .002   14357 2 - 91674   1274,181   300 78481.78   .003   1872 4 - 80354 3   1293,474   100 77265.36   .004   12510   1 - 89775   1274,363   800 78470.57   .001   13811 6 - 92254 5   1294,677   100 77239,14   .004   12956   1 - 97135   1274,905   100 78443.77   .001   13811 6 - 92254 5   1294,677   100 77239,14   .004   19956   1 - 97113   1274,905   100 78443.75   .003   36164 4 - 114591 3   1295,105   30 77213.8   .003   13813 2   103971   1275,070   60 78427.06   .003   36164 4 - 114591 3   1295,105   30 77216.3   .001   13811 6 - 92278 3   1295,610   .007   .002   .003   .001   .003   .004   .004   .004   .004   .004   .005   .0										
1272.237   40   78601.70   .000   48734   - 127336* 2   1292.818   20   77350.40   .001   19487   3 - 96838*   1273.260   40   78538.55   .003   51425   3 - 129964* 3   1293.379   80   77316.85   .002   14357   2 - 91674*   1274.181   300   78481.78   .000   51482   2 - 129964* 3   1293.375   100   77294.38   .002   22890   0 - 100184*   1274.363   800   78470.57   .002   1872   4 - 80354* 3   1294.261* 100   77265.36   .004   12510   1 - 89775* 1274.363   800   78470.57   .002   1872   4 - 80343* 5   1294.261* 100   77265.36   .004   12510   1 - 89775* 1274.932   500   78435.55   .006   242   1 - 78677*   1   1295.405   800   77193.31   .003   32183   2 - 100397* 1275.905   60   78427.06   .003   36164   4 - 114991* 3   1295.4105   800   77195.36   .004   19376   2 - 96736* 1275.698   20   7839.398   .001   16232   4 - 94076* 3   1296.981   800   77195.36   .004   19376   2 - 96736* 1275.897   20   78370.70   .002   12679   4 - 91050* 3   1296.981   800   77190.31   .004   19376   2 - 96736* 1277.497   100   78324.32   .001   1223   3 - 77908* 3   1296.981   500   77102.13   .002   13948   3 - 91050* 1277.895   500   78279.17   .002   668   2 - 78947*   1   1297.995   1   77076.28   .004   1273.89   .004   1272.36   .005   78279.286   .005   78279.286   .005   1233   3 - 79508* 3   1297.995   1   77076.28   .004										
1273.260   40   78538.55   .003   51425   3   129964*   3   1293.379   80   77316.85   .002   14357   2   91674*   1274.181   300   78481.78   .000   51482   2   129964*   3   1293.375   100   77294.38   .002   22890   0   100184*   1274.363   800   78470.57   .002   1872   4   80334*   5   1294.671   100   77293.34   .004   12966   1   97132*   1274.805   100   78443.37   .001   13811   6   92254*   5   1294.671   100   77293.34   .004   12966   1   97132*   1274.805   100   78443.37   .001   13811   6   92254*   5   1294.671   100   77293.34   .004   1376   1   97121.575   100   77294.38   .002   22890   0   100184*   1294.672   100   77293.34   .004   1376   1   97121.575   100   77294.38   .002   22890   0   100184*   1294.672   100   77293.34   .004   1376   1   97121.575   100   77294.38   .002   12871   3   1294.671   100   77293.34   .004   1376   1   97121.575   100   77294.38   .002   12871   3   1294.671   100   77293.34   .004   1376   2   97171   1275.700   60   78427.60   .003   36164   4   14591*   3   1295.105   30   77215.63   .001   13811   6   99106*   1275.977   20   78370.70   .002   12679   4   91050*   3   1295.616   200   77195.63   .001   13811   6   91050*   3   1295.616   200   77195.63   .001   13811   6   91050*   3   1296.684   100   77121.57   .000   13928   2   91050*   1275.977   20   78370.70   .002   12479   4   91050*   3   1296.684   100   77121.57   .000   13928   2   91050*   1277.985   100   78294.34   .001   1223   3   79508*   3   1297.416   2   77072.71   .005   53366   1   13439*   1297.476   2   77072.71   .005   53366   1   13439*   1297.975   1   77013.00   .004   12723   3   1297.975   1   77013.00   .004   12723   3   1297.975   1   77013.00   .004   12723   1   1297.975   1   1297.975   1   7818.49   .001   13948   3   92098*   1299.950   300   76973.22   .004   5062   1   12233   78188*   1299.950   300   78073.40   .004   1273   3   78188*   1299.950   300   78073.40   .004   1273   3   78188*   1299.850   300   78073.22   .004   1273   3   78188*   1299.850										
1274.181 300 78481.78 .000 51482 2 — 129964° 3										
1274.363	1273.260	40	78538.55	.003	51425 3 — 129964 3	1293.379	80	//310.85	.002	14357 2 — 91674 2
1274,805   100   78443.7	1274.181	300	78481.78	.000	51482 2 — 129964° 3	1293.755	100	77294.38	.002	22890 0 — 100184° 1
1274,805   100				.003	1872 4 — 80354° 3	1294.241	100	77265.36	.004	12510 1 — 89775° 0
1274-932   500	1274.363	800	78470.57	.002	1872 4 — 80343° 5	1294.677	100	77239.34	.004	19896 1 — 97135° 0
1275.070		100	78443.37	001	13811 6 — 92254° 5	1294.821	20	77230.75	.001	15871 3 — 93102° 4
1275.49  30										23183 2 — 100397° 3
1275.608   200										13811 6 — 91006° 5
1275.987   20										
1276.397   300   78345.53   .000   668   2 - 79013° 2										
1276.712 300 78326.20 .002 242 1 — 78568° 0 1297.416 30 77076.28 .004 56741 2 — 133818 1277.395 500 78284.32 .001 1223 3 — 79508° 3 1297.476 2 77072.71 .005 55366 1 — 132439 1277.479 100 78279.17 .002 668 2 — 78947° 1 1297.793 1 77053.89 .000 13928 2 — 90982 1277.582 50b1 78272.86 .005 1223 3 — 79497° 4 1297.968 1 77043.50 .003 46962 5 — 124005 1278.85 1h 78254.30 — .002 49541 4 — 127795° 3 1298.093 30 77036.08 .003 23183 2 — 100219 1278.016 100b1 78246.28 .002 15871 3 — 94117° 3 1298.120 20 77034.48 — .003 13948 3 — 9082 1279.375 1 78181.49 .001 46962 5 — 125143° 5 1298.831 60 77010.09 .002 12679 4 — 89689 1279.246 80 78171.04 — .003 13928 2 — 92099° 2 1298.688 100 7700.78 .003 23183 2 — 10014 1275.569 80 78151.31 — .001 13948 3 — 92099° 2 1299.050 300 76979.33 .004 13275 5 — 90255 1280.217 200 78055.54 .003 55366 1 — 133422° 2 .004 50362 1 — 127336 1288.2491 20 77973.25 .002 54191 2 — 132164° 1 1300.604 30 76934.20 .004 1223 3 — 78158 1282.491 20 77957.93 .000 5425 3 — 129183° 4 1300.677 500 76823.97 .003 12679 4 — 89503 1288.261 500 77957.93 .000 12679 4 — 98582° 3 1301.754 20 76814.03 .007 719896 1 — 96538 1288.2491 20 77957.93 .000 54125 3 — 123164° 1 1300.607 500 76823.97 .003 12679 4 — 89503 1288.261 500 77957.93 .000 12679 4 — 98588° 3 1288.261 500 77957.93 .000 12679 4 — 98588° 3 1288.253 300 7798.74 .000 12679 4 — 90588° 3 1288.253 300 7798.74 .000 12679 4 — 90588° 3 1288.250 10 77844.94 .000 12679 4 — 90588° 3 1301.754 20 7689.41 .002 23183 2 — 99522 1288.550 50 77787.91 .002 11271 0 — 89139° 1 1304.020 1h 76685.94 .001 1284 3 — 99582 1288.550 50 77790.79 .000 12679 4 — 90588° 3 1304.798 200 76640.21 .000 13948 3 — 90588 1288.509 500 77790.79 .000 12679 4 — 90588° 3 1304.798 200 76640.21 .000 13948 3 — 90588 1288.509 500 77790.79 .000 12679 4 — 90588° 3 1304.798 200 76640.21 .000 13948 3 — 90588 1288.509 500 77781.54 .000 12679 4 — 90588° 4 1304.42 20 176662.19 .000 13948 3 — 90588 1288.509 500 77781.54 .000 12679 4 — 90588° 4 1304.42 20 10 76662.19 .000 13948 3 — 90588 1288.509 500 77781.54 .000 126					<b>}</b> [	1296.981	500	77102.13		
1277.395   500   78284.32   .001   1223   3 - 79508* 3   1297.476   2   77072.71   .005   55366   1 - 132439* 1277.479* 100   78279.17   .002   668   2 - 78947* 1   1297.793   1   77053.89   .000   13928   2   90982   1277.885   1h   78254.30   .002   49541   4 - 127795* 3   1297.968   1   77043.50   .003   46962   5 - 124005* 1278.398   300   78246.28   .002   18871   3 - 94117* 3   1298.093   30   77036.08   .003   23183   2 - 100219* 1278.016   100h1   78246.28   .002   18871   3 - 94117* 3   1298.120   20   77034.48   .003   23183   2 - 100219* 1278.398   300   78222.90   .004   1872   4 - 80095* 4   1298.482   100   77013.00   .004   19576   2 - 96589* 1279.246   80   78171.04   .003   13928   2 - 92099* 2   1298.531   60   77010.09   .002   12679   4 - 89689* 1279.246   80   78151.31   .001   13948   3 - 92099* 2   1298.688   100   77000.78   .003   23183   2 - 100184* 1279.569   80   78151.31   .001   13948   3 - 92099* 2   1299.050   300   76979.33   .004   13275   5 - 90255* 1288.139   50   78055.54   .003   55366   1   133422* 2   1299.181   300   76973.22   .004   50362   1   127336* 1282.491   20   79732.5   .002   5419   2   132164* 1   1301.405   200   76840.03   .007   19896   1   96734.20   .004   1223   3   78158* 1281.319   20   77957.93   .000   51425   3   1298.83*   4   1301.677   500   76823.97   .003   19973   6   96907*   1281.899   300   77908.74   .000   12679   4   90588* 3   1303.886   50   76693.82   .001   15871   3   92758* 1284.265   200   77867.91   .002   16282   4   94117* 3   1304.402   1h   76685.94   .001   19896   1   96589* 1285.209   1   77803.55   .000   18973   6   97709* 5   1305.456   100   76691.58   .000   2424   1   76836410   500   77745.68   .003   13973   6   97709* 5   1305.546   100   76694.54   .004   242   1   76836410   500   77735.71   .003   19973   6   97709* 5   1305.546   100   76694.54   .004   242   1   76836410   500   77745.68   .003   13973   6   97709* 5   1305.546   100   76694.54   .004   242   1   76836410   500   77745.68   .003   13973	1270.571	300	70545.55	.000	000 2 - 77015 2				002	15407 5 — 50505 2
1277.479										56741 2 — 133818° 3
1277.582 5061 78272.86 .005 1223 3 — 79497* 4 1297.968 1 77043.50 .003 46962 5 — 124005 1277.885 1h 78254.30 .002 49541 4 — 127795* 3 1298.093 30 77036.08 .003 23183 2 — 100219 1278.016 100b1 78246.28 .002 15871 3 — 94117* 3 1298.120 20 77034.48 .003 13948 3 — 90982 1279.075 1 78181.49 .001 46962 5 — 125143* 5 1298.531 60 77010.09 .004 19576 2 — 96589 1279.075 1 78181.49 .001 46962 5 — 125143* 5 1298.531 60 77010.09 .002 12679 4 — 89689 1279.246 80 78171.04 .003 13928 2 — 92099* 2 1298.688 100 7700.78 .003 23183 2 — 100144 1279.569 80 78151.31 —.001 13948 3 — 92099* 2 1298.688 100 7700.78 .003 23183 2 — 100144 1279.569 80 78151.31 —.001 13948 3 — 92099* 2 1299.688 100 7700.78 .003 23183 2 — 10014 1279.569 80 78055.54 .003 55366 1 — 133422* 2 1299.050 300 76979.33 .004 13275 5 — 90255* 1280.217 200 78055.54 .003 55366 1 — 133422* 2 1299.153 30 76973.22 .004 50362 1 — 1273366 1282.443 100 77957.93 .000 51425 3 — 129383* 4 1300.604 30 76934.20 .004 1223 3 — 78158 1282.491 20 77973.25 .002 54191 2 — 132164* 1 1300.604 30 76887.35 .001 15871 3 — 92758 1282.861 500 77950.76 —.004 20611 4 — 98562* 3 1301.405 200 76823.97 .003 12679 4 — 89503* 1283.553 300 77908.74 .000 12679 4 — 90588* 3 1301.405 200 76823.97 .003 12679 4 — 89503* 1283.553 300 77908.74 .000 12679 4 — 90588* 3 1303.865 50 76693.82 .001 13996 1 — 96589* 1284.226 200 77867.91 .002 11271 0 — 89139* 1 1304.020 1h 76685.94 —.001 52697 4 — 129383* 1284.605 10 77844.94 .005 58730 4 — 136575* 4 1304.424 20b1 76662.19 .000 59059 2 — 137521* 1285.092 50 77815.44 .002 16282 4 — 94117* 3 1304.474 20b1 76662.19 .000 59059 2 — 137521* 1285.092 50 777815.44 .002 16282 4 — 94117* 3 1304.479 200 76692.52 .001 13948 3 — 90586* 1285.509 500 77771.32 .000 15871 3 — 93642* 2 1305.056 300 76625.06 .000 48734 1 — 125359* 1286.445 100 77741.93 .001 14357 2 — 92099* 2 1305.576 500 76594.54 .004 242 1 — 76836* 1286.440 500 77735.51 .003 13973 6 — 97709* 5 1305.576 500 76594.54 .004 242 1 — 76836* 1286.440 500 77735.51 .003 13973 6 — 97709* 5 1305.576 500 76594.54 .004 242 1 — 7										
1277.885					11					
1278.016   100bl   78246.28   .002   15871   3 - 94117°   3   1298.120   20   77034.48  003   13948   3 - 90982   1278.398   800   78222.90   .004   1872   4 - 80095°   4   1298.482   100   77013.00   .004   19576   2 - 96589   1279.246   80   78171.04  003   13928   2 - 92099°   2   1298.688   100   7700.78   .003   23183   2 - 100184   1279.569   80   78151.31  001   13948   3 - 92099°   2   1298.688   100   7700.78   .003   23183   2 - 100184   1279.569   80   78151.31  001   13948   3 - 92099°   2   1299.650   300   76979.33   .004   13275   5 - 90255°   1280.217   200   78111.75   .004   13275   5 - 91387°   4   1299.153   30   76973.22   .004   50362   1 - 127336   1280.806   50   78075.83  001   12510   1 - 90586°   2   1299.812   800   76934.20   .004   1223   3 - 78158   1281.399   300   78009.26   .004   668   2 - 78677°   1   1300.604   30   76887.35   .001   15871   3 - 92758   1282.491   20   77973.25   .002   54191   2 - 132164°   1   1301.405   200   76840.03   .007   19896   1 - 96736   1282.861   500   77950.76  004   20611   4 - 98562°   3   1301.677   500   76823.97   .003   12679   4 - 89503°   1283.553   300   77908.74   .000   12679   4 - 90588°   3   1303.886   50   76693.82   .001   19896   1 - 96589   1284.226   200   77867.91   .002   11271   0 - 89139°   1   1304.020   1h   76685.94  001   52697   4 - 129383°   1285.509   50   77815.44   .002   16282   4 - 94117°   3   1304.424   20b1   76680.17   .002   56741   2 - 133422   1285.509   50   77815.44   .002   16282   4 - 9408°   4   1304.502   500   76690.52   .001   1398   2 - 90586°   1285.509   500   77790.19  003   15273   3 - 9013°   2   1304.980   200   76625.06   .000   48734   1 - 125359   1285.209   1   77808.35   .000   15871   3 - 93642°   2   1305.576   500   76594.54   .004   242   1 - 76836   1286.410   500   77735.71  003   19973   6 - 97709° 5   1305.576   500   76594.54   .004   242   1 - 76836   1286.410   500   77735.71  003   19973   6 - 97709° 5   1305.576   500   76594.54   .004   2					t l					
1278.398   800   78222.90   .004   1872   4   80095° 4   1298.482   100   77013.00   .004   19576   2   96589   1279.075   1   78181.49   .001   46962   5   125143° 5   1298.531   60   77010.09   .002   12679   4   89689   1279.246   80   78171.04   .003   13928   2   92099° 2   1298.688   100   77000.78   .003   23183   2   100184   1279.569   80   78151.31  001   13948   3   92099° 2   1298.688   100   77000.78   .003   23183   2   100184   1279.569   1280.217   200   78111.75   .004   13275   5   91387° 4   1299.050   300   76979.33   .004   13275   5   90255′   1280.217   200   78075.83  001   12510   1   90586° 2   1299.812   800   76934.20   .004   1223   3   78158   1281.139   50   78055.54  003   5366   1   133422° 2					l l					
1279.075         1         78181.49         .001         46962         5         - 125143°         5         1298.531         60         77010.09         .002         12679         4         89689           1279.246         80         78171.04        003         13928         2         92099°         2         1298.688         100         77000.78         .003         23183         2         -100184           1279.569         80         78151.31        001         13948         3         92099°         2         1299.050         300         76979.33         .004         13275         5         90255           1280.217         200         78111.75         .004         13275         5         91387°         4         1299.153         30         76973.22         .004         50362         1         127336           1281.139         50         78055.54         .003         55366         1         133422°         2         .004         668         2         78677°         1         1300.604         30         76887.35         .001         15871         3         92758           1282.491         20         77973.25         .002         54191         2 <td></td>										
1279.246         80         78171.04        003         13928         2         92099° 2         1298.688         100         77000.78         .003         23183         2         100184           1279.569         80         78151.31        001         13948         3         92099° 2         1299.050         300         76979.33         .004         13275         5         90255'           1280.217         200         78111.75         .004         13275         5         91387° 4         1299.153         30         76973.22         .004         50362         1         127336'           1280.806         50         78075.83        001         12510         1         90586°         2         1299.812         800         76973.22         .004         50362         1         127336'         1281.899         300         78095.54         .003         55366         1         133422°         2         .003         19973         6         96907'         1         300.604         30         76887.35         .001         15871         3         92758'         1         1301.405         200         76887.35         .001         15871         3         92758'         1         1301.4										
1279.569         80         78151.31        001         13948         3         -92099°         2         1299.050         300         76979.33         .004         13275         5         - 90255'           1280.217         200         78111.75         .004         13275         5         - 91387°         4         1299.153         30         76973.22         .004         50362         1         - 127336           1280.806         50         78075.83        001         12510         1         - 90586°         2         1299.812         800         76934.20         .004         1223         3         - 78158           1281.139         50         78055.54         .003         55366         1         133422°         2         .003         19973         6         96907'           1281.899         300         7809.26         .004         668         2         78677°         1         1300.604         30         76887.35         .001         15871         3         92758'           1282.491         20         77973.25         .002         54191         2         1232164°         1         1301.405         200         76840.03         .007         19896										
1280.806       50       78075.83      001       12510       1       -90586° 2       1299.812       800       76934.20       .004       1223       3       -78158         1281.139       50       78055.54       .003       55366       1       -133422° 2       .003       19973       6       96907         1281.899       300       78009.26       .004       668       2       - 78677° 1       1300.604       30       76887.35       .001       15871       3       92758'         1282.743       100       77957.93       .000       51425       3       129383° 4       1301.677       500       76823.97       .003       12679       4       89503'         1282.743       100       77950.76      004       20611       4       98562° 3       1301.754       20       76819.43      002       16282       4       93102'         1283.049       2h       77939.34       .003       54853       5       132792° 5       1302.619       50       7668.41       .002       23183       2       99952'         1283.553       300       77908.74       .000       12679       4       90588°       3       1302.619       50 <td></td>										
1280.806       50       78075.83      001       12510       1       90586°       2       1299.812       800       76934.20       .004       1223       3       -78158         1281.139       50       78055.54       .003       55366       1       133422°       2       .003       19973       6       96907         1281.899       300       78009.26       .004       668       2       - 78677°       1       1300.604       30       76887.35       .001       15871       3       92758         1282.491       20       77973.25       .002       54191       2       132164°       1       1301.607       500       76823.97       .003       12679       4       89503'         1282.743       100       77950.76      004       20611       4       98562°       3       1301.754       20       76819.43      002       16282       4       93102         1283.049       2h       77939.34       .003       54853       5       132792°       5       1302.619       50       7668.41       .002       23183       2       99952'         1283.553       300       77968.74       .000       12679	1200.215	200	70111 75	004	12275 5 012979 4	1200 152	20	76072 22	004	50262 1 1272269 2
1281.139       50       78055.54       .003       55366       1       133422° 2       .003       19973       6       96907         1281.899       300       78099.26       .004       668       2       78677° 1       1300.604       30       76887.35       .001       15871       3       92758'         1282.743       100       77957.93       .000       51425       3       129383° 4       1301.677       500       76823.97       .003       12679       4       89503'         1282.861       500       77950.76      004       20611       4       98562° 3       1301.754       20       76819.43      002       16282       4       93102'         1283.049       2h       77939.34       .003       54853       5       132792° 5       1302.619       50       76681.43      002       23183       2       99952'         1284.226       200       77867.91       .002       11271       0       89139° 1       1304.020       1h       76685.94      001       52697       4       129383'         1284.773       500       77834.76       .002       16282       4       94117° 3       1304.020       1h       76										
1281.899       300       78009.26       .004       668       2       78677° 1       1300.604       30       76887.35       .001       15871       3       92758         1282.491       20       77973.25       .002       54191       2       132164° 1       1301.405       200       76840.03       .007       19896       1       96736         1282.743       100       77957.93       .000       51425       3       129383° 4       1301.677       500       76823.97       .003       12679       4       89503°         1283.049       2h       77939.34       .003       54853       5       132792° 5       1302.619       50       76768.41       .002       23183       2       99952°         1284.226       200       77867.91       .002       11271       0       89139° 1       1304.020       1h       76685.94      001       52697       4       129383°         1284.605       10       77844.94       .005       58730       4       136575° 4       1304.020       1h       76685.94      001       52697       4       129383°         1285.092       50       77815.44       .002       16282       4       9411						1299.012	800	70934.20		
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1283.553       300       77908.74       .000       12679       4 — 90588° 3       1303.886       50       76693.82       .001       19896       1 — 96589°         1284.226       200       77867.91       .002       11271       0 — 89139° 1       1304.020       1h       76685.94       — .001       52697       4 — 129383°         1284.605       10       77844.94       .005       58730       4 — 136575° 4       1304.118       50       76680.17       .002       56741       2 — 133422°         1284.773       500       77834.76       .002       16282       4 — 94117° 3       1304.424       20b1       76662.19       .000       59059       2 — 135721°         1285.092       50       77815.44       .002       16282       4 — 94098° 4       1304.502       500       76657.60       —.005       13928       2 — 90586°         1285.209       1       77808.35       .000       47978       2 — 125786° 3       1304.98       200       76640.21       .000       13948       3 — 90586°         1285.509       500       77771.32       .000       15871       3 — 93642° 2       1304.980       200       76625.52       .001       12510       1 — 89139°					11					
1284.226       200       77867.91       .002       11271       0       89139° 1       1304.020       1h       76685.94      001       52697       4       129383°         1284.605       10       77844.94       .005       58730       4       136575° 4       1304.118       50       76680.17       .002       56741       2       133422°         1284.773       500       77834.76       .002       16282       4       94117° 3       1304.424       20b1       76662.19       .000       59059       2       135721°         1285.902       50       77815.44       .002       16282       4       94098° 4       1304.502       500       76657.60      005       13928       2       90586°         1285.209       1       77808.35       .000       47978       2       125786° 3       1304.798       200       76640.21       .000       13948       3       90586°         1285.509       500       77790.19      003       1223       3       79013° 2       1304.980       200       76629.52       .001       12510       1       89139°         1285.821       500       77771.32       .000       15871       3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>19896 1 — 96589° 2</td></t<>										19896 1 — 96589° 2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		200				1304.020	1h			52697 4 — 129383° 4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1284.605	10	77844.94	,005	58730 4 — 136575° 4	1304,118	50	76680.17	.002	56741 2 — 133422° 2
1285.092       50       77815.44       .002       16282       4 — 94098° 4       1304.502       500       76657.60      005       13928       2 — 90586°         1285.209       1       77808.35       .000       47978       2 — 125786° 3       1304.798       200       76640.21       .000       13948       3 — 90588°         1285.509       500       777790.19      003       1223       3 — 79013° 2       1304.980       200       76629.52       .001       12510       1 — 89139°         1285.821       500       77771.32       .000       15871       3 — 93642° 2       1305.056       300       76625.06       .000       48734       1 — 125359°         1286.245       100       77745.68       .003       13928       2 — 91674° 2       .004       .000       14357       2 — 90982°         1286.307       100       77741.93       .001       14357       2 — 92099° 2       1305.456       100       76601.58      002       16282       4 — 92884°         1286.410       500       77735.71      003       19973       6 — 97709° 5       1305.576       500       76594.54       .004       242       1 — 76836°										59059 2 — 135721° 2
1285.209       1       77808.35       .000       47978       2       125786° 3       1304.798       200       76640.21       .000       13948       3       90588°         1285.509       500       77790.19      003       1223       3       79013° 2       1304.980       200       76629.52       .001       12510       1       89139°         1285.821       500       77771.32       .000       15871       3       93642° 2       1305.056       300       76625.06       .000       48734       1       125359°         1286.245       100       77745.68       .003       13928       2       91674° 2       .000       1625.06       .000       14357       2       90982°         1286.307       100       77741.93       .001       14357       2       92099° 2       1305.456       100       76601.58      002       16282       4       92884°         1286.410       500       77735.71      003       19973       6       97709° 5       1305.576       500       76594.54       .004       242       1       76836°					11					13928 2 — 90586° 2
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1285.821     500     77771.32     .000     15871     3 — 93642° 2     1305.056     300     76625.06     .000     48734     1 — 125359       1286.245     100     77745.68     .003     13928     2 — 91674° 2     .000     14357     2 — 90982       1286.307     100     77741.93     .001     14357     2 — 92099° 2     1305.456     100     76601.58    002     16282     4 — 92884       1286.410     500     77735.71    003     19973     6 — 97709° 5     1305.576     500     76594.54     .004     242     1 — 76836					· ·					12510 1 — 89139° 1
1286.245     100     77745.68     .003     13928     2     91674° 2     .000     14357     2     90982'       1286.307     100     77741.93     .001     14357     2     92099° 2     1305.456     100     76601.58    002     16282     4     92884'       1286.410     500     77735.71    003     19973     6     97709° 5     1305.576     500     76594.54     .004     242     1     76836'					15871 3 — 93642° 2	1305.056				48734 1 — 125359° 2
1286.410 500 77735.71 $003$ 19973 6 $97709^{\circ}$ 5   1305.576 500 76594.54 $.004$ 242 1 $76836^{\circ}$		100		.003	13928 2 — 91674° 2				.000	14357 2 — 90982° 2
	1286.307	100	77741.93	.001	14357 2 — 92099° 2	1305.456	100	76601.58	002	16282 4 92884° 5
1286.482 100 77731.36 .000 13275 5 — 91006° 5   1305.622 200 76591.84 — .002 16714 5 — 93306	1286.410	500	77735.71	003		1305.576	500	76594.54	.004	242 1 — 76836° 2
	1286.482	100	77731.36	.000	13275 5 — 91006° 5	1305.622	200	76591.84	002	16714 5 — 93306° 6
41										

Table 3. Classified lines of Mo III—Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.a	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level $J$ Level $J$	(Å)		$(cm^{-1})$	(Å)	Level $J$ Level $J$
1305.946	80	76572.84	.001	20611 4 — 97184° 4	1325.564	100	75439.58	.001	19576 2 — 95016° 1
1306.174	40	76559.47	001	11271 0 — 87831° 1	1326.635	20	75378.68	.000	23183 2 — 98562° 3
1306.497	10	76540.55	002	42665 2 — 119206° 1	1327.653	30	75320.88	.001	12510 1 — 87831° 1
1306.957	30	76513.61	002	56741 2 — 133255° 3	1327.958	30	75303.58	.006	668 2 — 75972° 1
1307.601	200	76475.92	.000	16282 4 — 92758° 3	1329.001	80	75244.48	.002	20611 4 — 95856° 3
1308.509	50	76422.86	.001	22890 0 — 99313° 1	1329.073	100	75240.41	.007	1872 4 — 77113° 5
1308.554	20	76420.23	.004	12679 4 — 89100° 4	1329.587	200	75211.32	004	13928 2 — 89139° 1
1308.654	30	76414.39	.000	13275 5 — 89689° 5	1329.984	300	75188.87	001	19487 3 — 94676° 3
1309.112	2	76387.65	.000	16714 5 — 93102° 4	1330.160	100	75178.92	.003	15871 3 — 91050° 3
1309.362	300	76373.07	.001 .005	13928 2 — 90301° 1 48734 1 — 125107° 1	1330.387	300	75166.09	.001	13275 5 — 88441° 6
			.005	40/51 1 12510/ 1	1330.639	5	75151.86	.001	13948 3 — 89100° 4
1309.439	100	76368.58	.000	19487 3 — 95856° 3	1330.974	20	75132.94	004	49088 2 — 124221° 1
1310.408	500	76312.11	005	19973 6 — 96285° 5	1331.012	60	75130.80	.003	12679 4 — 87810° 3
1310.500	100	76306.75	.000	13948 3 — 90255° 4	1331.198	20	75120.30	.000	19896 1 — 95016° 1
1310.666	300	76297.08	.005	27006 3 — 103303° 2	1331.471	40	75104.90	002	16282 4 — 91387° 4
1310.864	200	76285.56	.006	1872 4 — 78158° 3	1331.555	40	75100.16	002	19576 2 — 94676° 3
1311.122	2	76270.55	.002	49088 2 — 125359° 2	1333.990	20	74963.08	.000	12510 1 — 87473° 2
	_	#C0 C0 F0	007	27006 3 — 103276° 4	1334.679	10	74924.38	.004	58893 3 — 133818° 3
1311.260	2	76262.52	.002	54191 2 130453° 3	1335.119	200	74899.69	.002	19487 3 — 94387° 2
1311.397 1311.506	10 1	76254.55 76248.22	.000 .004	52811 1 — 129065° 1 48734 1 — 124982° 0	1335.304	1	74889.31	.003	43561 3 — 118451° 2
· · - <del>*</del> -					1335.884	1 <b>h</b>	74856.79	.003	89482 3 — 164339° 3
1311.595	80	76243.04	001	47978 2 — 124221° 1	1336.431	10	74826.16	.005	72356 2 — 147182° 2
1311.758	10	76233.57	.002	72187 3 — 148421° 2	1336.636	5	74814.68	.004	42521 2 — 117336° 2
1311.846	200	76228.46	.000	14357 2 — 90586° 2	1336.703	200	74810.93	.002	19576 2 — 94387° 2
			002	15871 3 — 92099° 2	1337.219	200	74782.06	.003	14357 2 — 89139° 1
			002	13275 5 — 89503° 4	1337.479	30	74767.52	.001	16282 4 — 91050° 3
1311.879	100	76226.54	001	20611 4 — 96838° 3	1338.263	1	74723.72	.008	16282 4 — 91006° 5
1312.854	100	76169.93	002	16714 5 — 92884° 5	1338.392	500	74716.52	009	19576 2 — 94292° 1
1313.031	200	76159.66	003	12510 1 — 88669° 0	1338.471	10	74712.11	.000	12679 4 — 87391° 3
1313.556 1314.373	100 60	76129.22 76081.90	.002 —.001	23183 2 — 99313° 1 12510 1 — 88592° 2	1338.671	20	74700.95	.002	72481 1 — 147182° 2
					1339.166	30	74673.34	004	16714 5 — 91387° 4
1314.684	5	76063.90	.000	19487 3 — 95551° 2	1339.344	300	74663.41	001	13928 2 — 88592° 2
1315.538	1	76014.52	.001	16714 5 — 92728° 6	1339.696	300	74643.80	.000	13948 3 — 88592° 2
1316.220	100	75975.14	.000	19576 2 — 95551° 2	1339.944	500	74629.98	.008	13811 6 — 88441° 6
1316.283	200	75971.50	.005	16282 4 — 92254° 5				005	19487 3 — 94117° 3
1316.756	100	75944.21	.001	14357 2 — 90301° 1	1340.199	2	74615.78	.001	72356 2 — 146972° 3
1316.834	5	75939.71	.001	72481 1 — 148421° 2	1340.299	10	74610.21	.003	19487 3 — 94098° 4
1317.347	5	75910.14	.000	51425 3 — 127336° 2	1340.619	100	74592.40	.003	1223 3 — 75816° 4
1317.894	500	75878.63	.001	13811 6 — 89689° 5	1341.012	200	74570.54	001	13928 2 — 88499° 3
1318.340	10	75852.96	.003	51482 2 — 127336° 2	1341.362	300	74551.09	003	13948 3 — 88499° 3
1318.835	80	75824.49	.003	13275 5 — 89100° 4	1341.549	200	74540.69	.004	19576 2 — 94117° 3
1210 010	500	75819.66	003	12670 4 99400° 2		200	74528.08	.004	58893 3 — 133422° 2
1318.919				12679 4 — 88499° 3 15871 3 — 91674° 2	1341.776 1341.833	1	74524.92	.003	52811 1 — 127336° 2
1319.203	10 2b1	75803.34	.000	58893 3 — 134695° 2	1341.033	1	74324.92	.000	58730 4 — 133255° 3
1319.228 1319.513	5	75801.90 75785.53	006 001	42665 2 — 118451° 2	1342.066	20	74511.98	.004	72356 2 — 146868° 3
1319.313	3	13163.33	001 004	59059 2 — 134844° 1	1342.432	80	74491.66	.001	19896 1 — 94387° 2
1319.758	20	75771.46	.003	58730 4 — 134502° 4	1343.176	10	74450.40	.002	19973 6 — 94424° 7
1320.482	5	75729.92	.007	242 1 — 75972° 1	1343.797	5	74416.00	.003	32387 2 — 106803° 3
1321.045	10Hb		001	56741 2 — 132439° 2	1343.879	30	74411.46	003	11271 0 — 85683° 1
1321.467	20	75673.47	.001	14296 4 — 75816° 4	1344.005	10	74404.48	.005	32398 4 — 106803° 3
1321.407	20	75075.41	.001	20611 4 — 96285° 5	15111005		.,,,,,,,	1000	. 100000
1201 701	10	MP(80.10		E0407 0 1000/E5 1	1344.146	200	74396.68	.000	19896 1 — 94292° 1
1321.734	10	75658.18	.001	53407 0 — 129065° 1	1344.377	40 151	74383.89	001	15871 3 — 90255° 4
1321.779	60	75655.61	.003	19896 1 — 95551° 2	1344.769	lbl	74362.21	.007	59059 2 — 133422° 2
1322.533	100	75612.48	.007	1223 3 — 76836° 2	1344.793	10	74360.88	.000	51425 3 — 125786° 3
1323.529	200	75555.57	.000	13948 3 — 89503° 4	1345.100	2	74343.91	.001	20611 4 94955° 4
1323.609	40	75551.01	.001	27006 3 — 102557° 3	1345.790	10	74305.79	001	16282 4 — 90588° 3
1323.800	200	75540.11	.000	16714 5 — 92254° 5	1346.030	200	74292.54	001	16714 5 — 91006° 5
1324.217	40	75516.32	.000	15871 3 — 91387° 4	1347.084	50	74234.42	.002	14357 2 — 88592° 2
1324.730	2	75487.08	.001	48734 1 — 124221° 1	1347.418	10	74216.01	.004	32587 3 — 106803° 3
1324.848	20	75480.35	.003	31323 2 — 106803° 3	1347.480	200	74212.60	.006	12679 4 — 86892° 5
1325.064	100	75468.05	002	19487 3 — 94955° 4					

Table 3. Classified lines of Mo III-Continued

Vavelength (Å)	Int.ª	Wavenumber (cm <sup>-1</sup> )	O-C (Å)	Classification Level J Level J	Wavelength (Å)	Int.ª	Wavenumber (cm <sup>-1</sup> )	O-C (Å)	Classification Level J Level
(A)			(A) 	Level 3 Level 3	(A)		(CIII )	(A)	Level J Level
347.791	1	74195.48	.006	59059 2 — 133255° 3	1369.222	20	73034.17	.001	14357 2 — 87391°
348.648	30	74148.33	.003	72187 3 — 146336° 4	1370.034	5	72990.88	.005	72356 2 — 145347
348.769	20	74141.68	001	14357 2 — 88499° 3	1370.323	100	72975.49	.001	16714 5 — 89689
348.930	300	74132.83	001	19576 2 — 93709° 1	1370.885	300	72945.57	.001	27006 3 — 99952
349.088	1	74124.14	001	50481 6 — 124605° 6	1371.541	20	72910.69	001	19973 6 — 92884
349.294	60	74112.83	.004	32398 4 — 106511° 4	1371.975	1	72887.62	.003	72187 3 — 145075
350.152	50	74065.73	.002	19576 2 93642° 2	1372.158	1	72877.90	.001	46601 4 — 119479
350.213	30	74062.38	.000	58730 4 — 132792° 5	1372.297	1	72870.52	.004	46299 3 — 119170
350.329	30	74056.02	.005	668 2 — 74724° 3	1372.325	2	72869.03	.004	48854 0 — 121723
350.673	40	74037.16	.000	11271 0 — 85308° 1	1372.382	1	72866.01	005	72481 1 — 145347
351.860	300	73972.15	.004	16282 4 — 90255° 4	1372.644	2	72852.10	.002	1872 4 74724
352.378	40	73943.82	.004	1872 4 — 75816° 4	1372.866	1	72840.32	.000	58730 4 — 131570
352.877	40	73916.55	.001	12510 1 — 86426° 2	1373.253	5	72819.79	001	12510 1 85329
353.510	5	73881.98	.000	13928 2 — 87810° 3	1373.298	2	72817.40	001ء	16282 4 89100
353.608	1	73876.63	002	51482 2 — 125359° 2	1373.644	1h	72799.06	007	12510 1 85308
354.058	30	73852.08	.000	27006 3 — 100858° 4	1373.825	200	72789.47	.000	16714 5 - 89503
354.164	80	73846.29	100.	22890 0 — 96736° 1	1374.470	100	72755.31	.002	19973 6 92728
54.536	2	73826.01	.003	43461 3 — 117287° 4	1375.125	40	72720.66	.004	15871 3 — 88592
54.600	1	73822.53	.005	77557 2 — 151380° 1	1375.895	20	72679.96	.007	72356 2 — 145036
54.784	20	73812.50	001	12510 1 — 86322° 0	1375.955	20	72676.79	.003	58893 3 — 131570
55.189	20	73790.44	.006	72187 3 — 145978° 2	1376.523	40	72646.80	001	77557 2 — 150204
55.681	20ы	73763.66	.007	72187 3 — 145951° 4	1376.786	1	72632.92	008	44655 4 — 117287
55.994	2001	73746.63	002	19896 1 — 93642° 2	1376.882	80	72627.86	.003	15871 3 — 88499
56.521	200	73717.98	.002	31323 2 — 105041° 1	1377.017	200	72620.74	001	13275 5 — 85896
56.632	20 1h	73711.95	.003	56741 2 — 130453° 3	1378.268	5	72554.83	.002	72481 1 — 145036
	40			23183 2 — 96838° 3	1378.883	200D	72522.46	.002	19576 2 — 92099
57.688	10	73654.62	.000			500		002	20611 4 — 93102
57.854		73645.62	.002	19576 2 — 93222° 1	1379.496		72490.24		
58.091	10	73632.76	002	15871 3 — 89503° 4	1379.714	1h	72478.78	005	13948 3 — 86426
58.379 58.433	200 60	73617.15 73614.23	001 002	13275 5 — 86892° 5 19487 3 — 93102° 4	1380.152 1381.488	2 50	72455.78 72385.71	.005 .001	72356 2 — 144812 16714 5 — 89100
	_								00100 0 05551
358.490	2	73611.14	.000	242 1 — 73853° 2	1381.825	50	72368.06	.001	23183 2 — 95551
358.606	1	73604.85	004	54191 2 — 127795° 3	1382.279	500	72344.29	.000	31323 2 — 103667
359.571	50	73552.61	.003	23183 2 — 96736° I	1382.875	5	72313.11	.004	56741 2 — 129055
359.718	40	73544.66	001	13928 2 — 87473° 2	1383.491	20	72280.91	.001	19973 6 — 92254
59.788	1	73540.87	004	16714 5 — 90255° 4	1383.660	100	72272.09	.004	20611 4 — 92884
60.440	30	73505.63	.001	20611 4 — 94117° 3	1384.178	1	72245.04	010	64331 3 — 13657
60.536	20	73500.44	.006	1223 3 — 74724° 3	1384.427	1	72232.05	.004	43561 3 — 115794
60.797	500	73486.34	.001	20611 4 — 94098° 4	1384.725	30	72216.50	.000	16282 4 — 88499
61.186	1	73465.34	.000	64331 3 — 137796° 3	1385.082	10	72197.89	.002	32843 2 — 10504
61.414	20	73453.04	.001	14357 2 — 87810° 3	1385.300	80	72186.53	.002	19487 3 — 91674
62.263	200	73407.26	001	16282 4 — 89689° 5	1386.067	10	72146.58	.003	20611 4 — 92758
62.281	200	73406.29	002	23183 2 — 96589° 2	1386.463	80	72125.97	.004	22890 0 95010
62.565	20	73390.99	.001	27006 3 — 100397° 3	1386.510	30	72123.53	.003	32387 2 — 10451
62.768	1	73380.06	003	59059 2 — 132439° 2	1387.004	30	72097.84	.001	19576 2 — 9167-
63.651	40	73332.54	.000	19973 6 — 93306° 6	1387.113	10	72092.18	.005	32418 1 — 10451
63.769	10	73326.20	.003	19896 1 — 93222° 1	1387.553	50	72069.31	.002	42521 2 — 11459
64.746	5bl	73273.70	.004	64331 3 — 137605° 4	1307.333	50	72007.51	001	14357 2 — 86420
64.800	200	73270.80	002	19487 3 — 92758° 3	1389.049	100	71991.70	.001	32519 1 — 10451
65.577	1	73229.11	002 003	15871 3 — 89100° 4	1389.892	80	71948.03	002	13948 3 — 85896
65.725	40	73221.18	003 001	16282 4 — 89503° 4	1390.365	80	71923.56	.002	32587 3 — 10451
				10/70 / 255512 1		100		001	
65.813 65.8 <b>7</b> 3	60 60	73216.46 73213.24	.001 .002	12679 4 — 85896° 4 27006 3 — 100219° 2	1390.827 1391.095	100 100	71899.66 71885.81	001 .001	19487 3 — 9138 33155 0 — 10504
666.347	100	73187.85	.002	31323 2 — 104511° 2	1391.501	30	71864.84	.000	12679 4 — 8454
					i			.003	44655 4 — 11649
366.410	10	73184.47	.005	668 2 — 73853° 2	1391.933	5	71842.53		23183 2 — 95010
66.457	50	73181.95	.000	19576 2 — 92758° 3	1392.125	5	71832.63	.000	
66.627	50	73172.85	.000	12510 1 — 85683° 1	1393.177	20	71778.38	.003	19896 1 9167
66.876	10	73159.52	.003	72187 3 — 145347° 2	1393.644	10	71754.33	.001	13928 2 — 8568
67.694	2	73115.77	001	14357 2 — 87473° 2	1394.165	300	71727.52	005	16714 5 — 8844
368.337	500	73081.41	.000	13811 6 — 86892° 5	1394.580	30	71706.17	.000	12510 1 — 84216
	1	73036.68	007	43461 3 — 116497° 3	1395.327	1	71667.78	.001	32843 2 - 10451

Table 3. Classified lines of Mo III-Continued

Wavelength (Å)	Int.ª	Wavenumber (cm <sup>-1</sup> )	O-C (Å)	Classification Level J Level J	Wavelength (Å)	Int.ª	Wavenumber (cm <sup>-1</sup> )	O-C (Å)	Classification Level $J$ Level $J$
1395.818	20	71642.57	.001	20611 4 — 92254° 5	1415.360	50	70653.40	001	58730 4 — 129383° 4
1396.234	20	71621.23	.002	72187 3 — 143809° 3	1415.639	500	70639.47	.002	36164 4 — 106803°
1396.607	10	71602.10	.000	15871 3 — 87473° 2	1415.998	5	70621.56	003	43461 3 — 114083°
1397.381	20	71562.44	001	19487 3 — 91050° 3	1416.225	500	70610.24	007	16282 4 — 86892°
1397.427	5	71560.08	.000	58893 3 — 130453° 3	1416.504	60	70596.34	002	13948 3 — 84544°
1397.511	80	71555.78	.000	27006 3 — 98562° 3	1416.548	10	70594.14	.000	56741 2 — 127336° 2
1398.581	5	71501.04	.000	47978 2 — 119479° 3	1417.319	1	70555.74	003	15871 3 — 86426° 3
1398.703	80	71494.80	002	19487 3 — 90982° 2	1417.919	300	70525.89	003	23183 2 — 93709°
1398.736	40	71493.12	002	23183 2 — 94676° 3				.007	75816° 4 — 146342
			004	42521 2 — 114014° 1	1418.012	10	70521.26	.001	43561 3 — 114083° 3
1399.118	50	71473.60	.001	19576 2 — 91050° 3	1418.657	2	70489.20	.005	72356 2 — 142845°
1399.524	5	71452.86	001	72356 2 — 143809° 3	1418.990	2	70472.66	.002	47978 2 — 118451°
1400.442	20	71406.02	002	19576 2 — 90982° 2	1418.998	1	70472.26	008	48734 1 — 119206°
1400.513	50	71402.40	.003	22890 0 — 94292° 1	1419.081	100	70468.14	002	12679 4 — 83147°
1400.672	10	71394.30	.000	59059 2 — 130453° 3	1419.681	20	70438.35	.001	20611 4 — 91050°
1400.925	300	71381.40	.006	13948 3 — 85329° 2	1419.729	2	70435.97	.000	48734 1 — 119170° 3
1401.560	5	71349.06	002	42665 2 — 114014° 1	1420.339	30	70405.72	.002	19896 1 — 90301°
1402.023	20	71325.50	.001	14357 2 — 85683° 1	1420.554	30	70395.07	001	20611 4 — 91006° :
1402.921 1403.146	20 500	71279.85 71268.42	.002 .002	32387 2 — 103667° 3 32398 4 — 103667° 3	1421.956	5 40	70325.66	.001 003	46962 5 — 117287° 4
1403.140	300	71200.42	.002	32398 4 — 103007 3	1424.940	40	70178.39	005 005	16714 5 — 86892° : 27006 3 — 97184° 4
1403.817	80	71234.35	.004	31323 2 — 102557° 3	1425 100	60	70170 07	002	22207 2 1025579
1403.919	5	71229.18	004 .003	58730 4 — 129964° 3 72356 2 — 143585° 2	1425.109 1425.285	60 10	70170.07	.003	32387 2 — 102557° :
1403.919	2	71229.18	003 001	47978 2 — 119206° 1	1425.285	10	70161.40 70158.79	001 .000	58893 3 — 129055° 3 32398 4 — 102557° 3
1403.946	200	71227.81	.000	32398 4 — 103621° 5	1425.338	1	70138.79	.001	49088 2 — 119206°
1404.414	30	71204.07	001	23183 2 — 94387° 2	1427.784	30	70038.60	.001	23183 2 — 93222°
1405.890	1	71129.32	.006	43461 3 — 114591° 3	1428.059	300	70025.11	002	15871 3 — 85896°
1406.293	100	71108.93	.003	16282 4 — 87391° 3	1428.241	200	70016.19	005	19487 3 — 89503° 4
	100		.000	23183 2 — 94292° 1	1428.446	5	70006.14	002	59059 2 — 129065°
1406.453	5	71100.84	005	19487 3 — 90588° 3	1429.049	50	69976.60	.000	20611 4 — 90588°
1406 501	20	71000 43	206	10407 2 005078 2	1429.180	100	69970.19	.002	32587 3 — 102557°
1406.501 1406.731	30 10	71098.42 71086.79	006 004	19487 3 — 90586° 2 19896 1 — 90982° 2	1429.880	20	69935.93	.001	44655 4 — 114591°
1406.751	2	71080.79	.000	32587 3 — 103667° 3	1430.690	1	69896.34	.001	46601 4 — 116497°
1400.803	2	71058.91	.000	33452 3 — 104511° 2	1430.090	80	69879.88	001 002	19896 1 — 89775° (
1407.283	1	71054.01	001	56741 2 — 127795° 3	1431.602	20	69851.81	002 001	33452 3 — 103303° 3
1407.716	1	71037.05	.002	46299 3 — 117336° 2	1432.014	100	69831.72	.000	27006 3 — 96838°
1407.784	1	71033.62	005	19973 6 — 91006° 5	1432.165	1	69824.35	.003	33452 3 — 103276°
1407.868	1	71029.38	.002	43561 3 — 114591° 3	1434.382	30	69716.43	001	19973 6 — 89689°
1408.213	300	71011.98	004	19576 2 — 90588° 3	1434.422	1	69714.49	002	32843 2 — 102557°
1408.266	300	71009.31	.001	19576 2 — 90586° 2	1435.629	80	69655.87	001	13928 2 — 83584°
					1435.893	200	69643.07	.002	20611 4 — 90255°
1408.998	80	70972.42	.000	14357 2 — 85329° 2	1427 022	100	(0(3( 33	001	112040 2 025049
1409.420	40	70951.17	.004	14357 2 — 85308° 1 23183 2 — 94117° 3	1436.032	100 5	69636.33	001	13948 3 — 83584° :
1409.762	40	70933.95	002		1436.252		69625.66	004	77557 2 — 147182° 3
1410.109	10	70916.50	.001 —.001	32387 2 — 103303° 2 54191 2 — 125107° 1	1436.499 1436.523	20 10	69613.69 69612.53	004 005	16282 4 — 85896° 4 19487 3 — 89100° 4
1410.343	80	70904.73	.001	12679 4 — 83584° 3	1437.301	40	69574.84	.003	23183 2 — 92758°
1410.545	80	70904.73	.002	59059 2 — 129964° 3	1438.963	5	69494.49	001 001	46299 3 — 115794°
1410.727	1	70885.43	003	32418 1 — 103303° 2	1439.113	30	69487.24	.000	64331 3 — 133818°
1410.880	80	70877.75	.002	32398 4 — 103276° 4	1439.700	5	69458.91	003	15871 3 — 85329°
1411.153	30	70864.03	.003	77557 2 — 148421° 2	1441.700	30	69362.55	001	49088 2 — 118451°
					1441.791	200	69358.18	.002	47978 2 — 117336°
1411.486	5	70847.32	.005	72356 2 — 143204° 2					
1411.929	1	70825.09	.003	48734 1 — 119559° 0	1442.243	500	69336.44	.003	13811 6 — 83147°
1411.946	2	70824.23	002	32843 2 — 103667° 3	1442.370	30	69330.33	003	12679 4 — 82009°
1412.042	100	70819.42	002	22890 0 — 93709° 1	1444.167	2	69244.06	005	19896 1 — 89139°
1412.915	50	70775.66	001	20611 4 — 91387° 4	1444.522	100	69227.05	002	14357 2 — 83584° :
1413.081	2	70767.35	004	19487 3 — 90255° 4	1445.463	30 80	69181.98	003	16714 5 — 85896° -
1413.921 1414.094	30 30	70725.30 70716.65	003 001	19576 2 — 90301° 1 32587 3 — 103303° 2	1447.090	80 30	69104.20	.000	19487 3 — 88592°
1414.632	100	70716.65 70689.76	001 .005	19896 1 — 90586° 2	1447.366 1447.638	100	69091.02 69078.04	.000 .000	64331 3 — 133422° 20611 4 — 89689°
1717.032	100	10009.10	005 008	32587 3 — 103276° 4	1447.710	50	69074.60	001	31323 2 — 100397°

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.ª	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level $J$ Level $J$
1449.035	30	69011.44	003	19487 3 — 88499° 3	1477.760	60	67669.98	.003	27006 3 — 94676° 3
1450.866	60b1	68924.35	003	64331 3 — 133255° 3	1477.865	100	67665.17	.003	32519 1 100184° 1
1450.901	200	68922.69	003	19576 2 — 88499° 3	1477.901	60	67663.53	001	12679 4 — 80343° 3
451.043	10	68915.94	002	23183 2 — 92099° 2	1478.579	40	67632.50	.002	32587 3 — 100219° 2
1451.334	40	68902.12	001	58893 3 — 127795° 3	1480.063	10	67564.69	.003	32387 2 99952° 2
1451.547	300	68892.01	001	20611 4 — 89503° 4	1481.414	10	67503.07	.006	36164 4 — 103667° 3
1452.189	200	68861.56	.000	31323 2 — 100184° 1	1481.927	1	67479.70	003	56741 2 — 124221°
1452.562	2	68843.87	.004	74724° 3 — 143568 4				007	77557 2 — 145036° 1
			005	50362 1 — 119206° 1	1482.420	20	67457.26	.002	36164 4 — 103621° :
1453.324	5	68807.78	001	50362 1 — 119170° 2	1482.956	10	67432.88	.001	32519 1 — 99952° 2
1454.045	100	68773.66	.002	19896 1 — 88669° 0	1483.328	1	67415.97	001	12679 4 — 80095°
1454.874	800	68734.47	002	13275 5 — 82009° 4	1483.425	10	67411.56	.003	22890 0 — 90301° 1
1455.688	80	68696.03	.001	19896 1 — 88592° 2	1483.482	2	67408.97	001	80343° 5 — 147752 3
1456.166	30	68673.48	004	15871 3 — 84544° 4				.005	49088 2 — 116497° 3
1457.481	500	68611.52	002	13928 2 — 82540° 2	1483.544	80	67406.15	.000	11271 0 — 78677°
1457.898	200	68591.90	001	13948 3 — 82540° 2				.006	33452 3 — 100858° 4
1458.890	30	68545.26	002	27006 3 — 95551° 2	1483.576	200	67404.70	.001	23183 2 — 90588° 3
1460.049	50	68490.85	.000	23183 2 — 91674° 2	1483.632	100	67402.15	.003	23183 2 90586° 2
1460.105	5	68488.22	.002	20611 4 — 89100° 4	1484.099	200	67380.95	.003	27006 3 — 94387° 2
1460.533	30	68468.15	001	19973 6 — 88441° 6	1484.201	1bl	67376.31	.008	32843 2 — 100219° 2
1460.713	80	68459.71	.001	32398 4 — 100858° 4	1484.458	100	67364.65	.005	32587 3 — 99952° 2
1461.089	5	68442.10	.002	58893 3 — 127336° 2	1485.841	300	67301.95	003	16282 4 — 83584° 3
1462.821	500	68361.06	002	12679 4 — 81040° 3	1487.772	1	67214.60	.004	78689° 6 — 145904
1463.430	5	68332.61	007	34225 4 — 102557° 3	1490.039	500	67112.33	.008	36164 4 — 103276° 4
1463.639	40	68322.85	002	19487 3 — 87810° 3				008	13928 2 — 81040°
1464.635	40	68276.39	.001	59059 2 — 127336° 2	1490.490	500	67092.03	008	27006 3 — 94098° 4
1464.746	80	68271.22	.002	32587 3 — 100858° 4				.009	13948 3 — 81040° 3
1464.950	200	68261.71	.002	16282 4 — 84544° 4	1491.209	1	67059.68	.000	48734 1 — 115794° 2
1465.105	200	68254.49	.001	19576 2 — 87831° 1	1491.887	60	67029.20	.001	33155 0 — 100184°
1465.246	40	68247.92	.002	49088 2 — 117336° 2	1492.357	1	67008.09	.006	77113° 5 — 144121
1465.543	5	68234.09	002	19576 2 — 87810° 3	1493.237	20	66968.60	005	51482 2 — 118451° 2
1466.649	20	68182.63	001	14357 2 — 82540° 2				.008	50318 5 — 117287° 4
1467.406	20	68147.46	004	35129 5 — 103276° 4	1493.477	300	66957.84	003	12510 1 — 79467° 2
1469.260	300	68061.47	.003	13948 3 — 82009° 4	1493.896	30	66939.06	003	19487 3 — 86426° 2
1469.437	10	68053.27	.008	51425 3 — 119479° 3	1494.197	30	66925.57	.000	32387 2 — 99313°
1470.372	80	68010.00	.005	32387 2 — 100397° 3	1494.339	1	66919.22	003	19973 6 — 86892°
1470.615	10	67998.76	.000	32398 4 — 100397° 3	1494.895	10	66894.33	.000	32418 1 — 99313°
1470.810	100	67989.74	001	46601 4 — 114591° 3	1494.919	5	66893.25	006	58893 3 — 125786° 3
1470.903	80	67985.44	.004 001	31323 2 — 99313° 1 19487 3 — 87473° 2	1495.211 1495.542	5 200	66880.19 66865.39	002 007	75816° 4 — 142696 4 16282 4 — 83147° 3
					1				
1471.364	2	67964.14	006	54853 5 — 122817° 5	1496.362	200	66828.74	003	12679 4 — 79508°
1471.688	60	67949.18	.001	27006 3 — 94955° 4	1496.552	200	66820.26	004	13275 5 — 80095° 4
1471.993	80	67935.10	.002	19896 1 — 87831° 1	1497.144	200	66793.84	004	32519 1 — 99313°
1472.420	1	67915.40	.000	91098 4 — 159013° 5	1497.419	50	66781.57	.000	52697 4 — 119479° 3
1472.668	5	67903.96	001	19487 3 — 87391° 3	1499.133	20	66705.22	.002	49088 2 — 115794° 2
1472.826	10	67896.68	001	19576 2 — 87473° 2	1499.629	10	66683.16	001	14357 2 — 81040° :
1473.030	10	67887.28	.001	20611 4 — 88499° 3	1499.945	500	66669.11	004	15871 3 — 82540° 2
1473.483	500	67866.40	.004	23183 2 — 91050° 3	1503.034	300	66532.09	002	13811 6 — 80343° 5
1474.592	200	67815.36	.004	47978 2 — 115794° 2	1503.672	200	66503.86	003	12510 1 - 79013° 2
1474.592	200	67815.36	<b>-</b> .005	19576 2 — 87391° 3	1503.758	1	66500.06	001 .002	33452 3 — 99952° 2 72187 3 — 138688° 4
1474.706	100	67810.12	.004	32587 3 — 100397° 3	1505 170	100			
1474.861	5	67803.00	.001	58730 4 — 126533° 4	1505.172	100	66437.59	001	12510 1 — 78947°
1474.950	30	67798.90	.000	23183 2 — 90982° 2	1505.262	500	66433.61	005	16714 5 — 83147° :
1474.990	30	67797.07	.003	32387 2 — 100184° 1	1505.432	20	66426.11	007	13928 2 — 80354° :
1475.284	1	67783.55	002	46299 3 — 114083° 2	1505.834	10	66408.38	002	19487 3 — 85896° 4
1475.668	5	67765.92	.001	32418 1 — 100184° 1	1505.882	40	66406.26	001	13948 3 — 80354° :
1476.809	500	67713.56	005	15871 3 — 83584° 3	1506.173	30	66393.43	.005	36164 4 — 102557° :
1477.093	60	67700.54	.002	32519 1 — 100219° 2	1508.735	60	66280.69	.001	20611 4 — 86892°
1477.629	100	67675.98	001	11271 0 — 78947° 1	1509.441	40	66249.69	.000	22890 0 — 89139°
1477.659	100	67674.61	.004	12679 4 80354° 3	1510.080	100	66221.65	002	13275 5 — 79497° 4

Table 3. Classified lines of Mo III—Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.ª	Wavenumber	O-C	Classification
(Å)		$(cm^{-1})$	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Lev
1511.144	40	66175.03	002	32387 2 — 98562° 3	1555.455	50	64289.87	007	23183 2 — 8747
1511.308	50	66167.84	003	12510 1 — 78677° 1	1555.609	1	64283.50	001	83147° 5 — 14743
1511.415	20	66163.16	.007	32398 4 — 98562° 3	1556.398	2	64250.91	.001	32587 3 — 9683
511.539	50	66157.73	003	33155 0 — 99313° 1	1556.905	10	64229.99	007	13928 2 — 7815
1511.774	40	66147.45	003	13948 3 — 80095° 4	1557.039	20	64224.46	001	15871 3 — 8009
1511.968	500	66138.96	006	15871 3 — 82009° 4	1557.216	10	64217.16	002	32519 1 — 9673
1512.709	30	66106.56	003	19576 2 — 85683° 1	1557.381	50	64210.36	005	13948 3 — 7815
1512.962	500	66095.51	003	27006 3 — 93102° 4	1557.570	10	64202.57	003	32387 2 — 9658
1515.215	500	65997.23	007	14357 2 — 80354° 3	1560.143	50	64096.68	001	19487 3 — 8358
1515.723	40	65975.11	002	32587 3 — 98562° 3	1561.023	40	64060.55	002	16282 4 — 8034
								002	79508° 3 — 14356
1516.160 1517.210	60 2	65956.10 65910.45	.000 .009	23183 2 — 89139° 1 51425 3 — 117336° 2	1562.302	300	64008.11	006	19576 2 — 8358
1517.210	10	65861.83	.001	51425 3 — 117330 2 51425 3 — 117287° 4	1562.442	50	64002.37	.004	32587 3 — 9658
	1	65853.85	.001	51482 2 — 117336° 2	1564.151	40	63932.44	.004	20611 4 — 8454
1518.514	200		002	19487 3 — 85329° 2	1564.341	1	63924.68	.003	72356 2 — 13628
1518.783		65842.19		1	į.	5			
1520.058	10	65786.96	.003	19896 1 — 85683° 1	1565.115		63893.06	.002	32843 2 — 9673
1521.098	2	65741.98	.005	82009° 4 — 147752 5	1565.278	300	63886.41	.002	32398 4 — 9628
1521.323	80	65732.26	.000	19576 2 — 85308° 1	1566.252	5	63846.68	.000	83584° 3 — 14743
1521.438	200	65727.29	002	16282 4 — 82009° 4	1566.471	10	63837.76	.000	13275 5 — 7711
1523.613	2	65633.46	.000	64331 3 — 129964° 3	1567.080	10	63812.95	001	16282 4 — 8009
1524.663	2	65588.26	.003	79508° 3 — 145096 4	1567.376	200	63800.90	001	14357 2 — 7815
1524.862	50	65579.70	002	13928 2 — 79508° 3	1567.920	1h	63778.76	007	80343° 5 — 14412
1525.317	5	65560.14	002	13948 3 — 79508° 3	1571.410	5	63637.11	.000	15871 3 — 7950
1525.581	50	65548.79	.001	13948 3 — 79497° 4	1571.613	200	63628.89	002	16714 5 — 8034
1525.802	30	65539.30	002	13928 2 — 79467° 2	1571.687	30	63625.90	.002	15871 3 — 7949
1526.258	100	65519.72	002 001	13948 3 — 79467° 2	1572.796	20	63581.03	.000	33155 0 — 9673
	5					5		.002	
1526.362		65515.25	.000	31323 2 — 96838° 3	1575.574		63468.93		
1527.216	30	65478.62	.002	12679 4 — 78158° 3	1575.741	200	63462.20	002	
1528.745	100	65413.13	.005	31323 2 — 96736° 1	1575.859	300	63457.45	.003	32398 4 — 9585
			005	19896 1 — 85308° 1	1577.750 1578.442	20 100	63381.39 63353.61	004 .000	16714 5 — 8009 31323 2 — 9467
1528.857	80	65408.34	.001	23183 2 — 88592° 2	10.01.12	•••	00000101	1000	, , , , , , , , , , , , , , , , , , ,
1531.034	100	65315.33	.004	23183 2 — 88499° 3	1579.726	40	63302.11	001	13811 6 — 7711
1531.158	100	65310.04	.003	32398 4 — 97709° 5	1580.553	60	63268.99	.002	32587 3 — 9585
1531.762	10	65284.29	.001	20611 4 — 85896° 4	1581.070	10	63248.30	.003	27006 3 — 9025
1532.176	100	65266.65	.003	31323 2 — 96589° 2	1581.641	2	63225.47	.004	16282 4 — 7950
1534.463	100	65169.37	.003	15871 3 — 81040° 3	1001.011	_	00220	.003	80343° 5 — 14356
1534.902	50	65150.73	.001	14357 2 — 79508° 3	1581.916	30	63214.48	002	16282 4 — 7949
1535.855	50	65110.31	.001	14357 2 — 79467° 2	1501.710	-	00214.40	004	80354° 3 — 14356
1555.055	50	05110.51	004	33452 3 — 98562° 3	1582.924	1	63174.22	.000	19973 6 — 8314
1536.445	5	65085.31	004	13928 2 — 79013° 2	1584.722	1	63 102.55	003	80095° 4 — 14319
1330.773	3	0,005.51	001	13928 2 — 19013 2	1585.678	5	63064.50	.002	31323 2 — 9438
1536.911	100	65065.57	.003	13948 3 — 79013° 2					
1537.124	200	65056.56	.002	19487 3 — 84544° 4	1586.483	30	63032.50	001	32519 1 — 9555
1538.013	100	65018.95	.002	13928 2 — 78947° 1	1587.993	20	62972.57	.002	20611 4 — 8358
1539.857	2	64941.09	.000	22890 0 87831° 1	1588.201	100	62964.32	.003	32587 3 — 9555
1541.351	5	64878.14	.004	13811 6 — 78689° 6	1589.617	40	62908.23	003	13928 2 — 7683
1542.346	1	64836.29	.001	83147° 5 — 147984 6	1590.113	300	62888.61	002	13948 3 — 7683
1543.548	50	64785.80	.002	32398 4 — 97184° 4	1592.493	1	62794.62	004	31323 2 — 9411
1544.209	10	64758.07	002	16282 4 — 81040° 3	1592.797	1	62782.64	.002	16714 5 7949
1544.418	80	64749.31	002	13928 2 — 78677° 1	1593.938	2	62737.69	001	56741 2 11947
1545.579	300	64700.67	003	11271 0 — 75972° 1	1596.321	100	62644.04	.002	19896 1 8254
					1596.710	200	62628.78	.002	32387 2 — 9501
1546.636	30	64656.45	001	14357 2 — 79013° 2					
1547.600	50	64616.18	.002	32519 1 — 97135° 0	1598.542	100	62557.00	001	32398 4 — 9495
1548.052	200	64597.31	.002	32587 3 — 97184° 4	1598.951	40	62541.00	.000	13275 5 — 7581
1549.577	30	64533.74	009	31323 2 — 95856° 3	1599.335	2h	62525.98	.000	79467° 2 — 14199
1550.784	30	64483.51	005	15871 3 — 80354° 3	1599.443	200	62521.76	.006	19487 3 — 8200
1551.563	300	64451.13	006	32387 2 — 96838° 3	1600.071	40	62497.22	.000	27006 3 — 8950
1551.843	60	64439.50	001	32398 4 — 96838° 3				007	32519 1 — 9501
1551.984	1	64433.65	002	12679 4 — 77113° 5	1600.527	200	62479.42	004	14357 2 — 7683
	200	64326.67	002	12510 1 — 76836° 2		-		007	80343° 5 — 14282
1334.363					1				
1554.565 1554.716	40	64320.42	.000	19896 1 — 84216° 0	1602.079	1	62418.89	002	22890 0 — 8530

Table 3. Classified lines of Mo 111-Continued

Wavelength (Å)	Int.a	Wavenumber (cm <sup>-1</sup> )	O-C (Å)	Classification Level $J$ Level $J$	Wavelength (Å)	Int.ª	Wavenumber (cm <sup>-1</sup> )	O-C (Å)	Classification Level $J$ Level $J$
1605.637	2061	62280.57	.000	94098° 4 — 156378 4	1666.096	20	60020.55	003	19487 3 — 79508° 3
1605.707	300	62277.86	001	32398 4 — 94676° 3	1668.182	1	59945.49	005	15871 3 — 75816° 4
1608.822	1	62157.28	.002	81040° 3 — 143198 4	1669.310	5	59904.99	002	13948 3 — 73853° 2
1609.105	80	62146.34	002	23183 2 — 85329° 2	1669.690	5	59891.35	002	19576 2 — 79467° 2
1610.579	10	62089.47	003	32587 3 — 94676° 3	1670.689	20	59855.54	.002	32398 4 — 92254° 5
1611.765	300	62043.78	003	13928 2 — 75972° 1	1671.907	1	59811.93	.002	83584° 3 — 143396 3
1612.739	3h	62006.31	006	91098 4 — 153104° 3	1672.160	20	59802.89	.000	83147° 5 — 142950 5
1612.898	30	62000.31	.001	32387 2 — 94387° 2	1672.268	10	59799.02	001	83147° 5 — 142946 5
1613.546	30	61975.30	004	16714 5 — 78689° 6	1673.847	10	59742.61	.000	20611 4 — 80354° 3
1615.227	5	61910.80	.007	94676° 3 — 156587 3	1674.158	10	59731.51	006	20611 4 — 80343° 5
1615.372	10	61905.24	001	32387 2 — 94292° 1	1676.178	40	59659.53	001	31323 2 — 90982° 2
1615.528	30	61899.26	.000	31323 2 — 93222° 1	1677.473	5	59613.47	.001	83584° 3 — 143198 4
1616.138	20	61875.90	005	16282 4 — 78158° 3	1678.408	40	59580.26	002	32519 1 — 92099° 2
1616.335	80	61868.36	.000	32519 1 — 94387° 2	1678.645	1	59571.85	.002	19896 1 — 79467° 2
			003	13948 3 — 75816° 4	1679.474	40	59542.45	.000	88441° 6 — 147984 6
1616.526	40	61861.05	003	33155 0 — 95016° 1	1679.714	2	59533.94	004	16282 4 75816° 4
1618.115	80	61800.30	.001	32587 3 — 94387° 2	1680.329	1	59512.15	.001	32587 3 — 92099° 2
1620.760	10	61699.45	002	32398 4 — 94098° 4	1682.443	5	59437.37	002	19576 2 — 79013° 2
1621.900	2	61656.08	005	81040° 3 — 142696 4	1683.416	1	59403.02	.000	97184° 4 — 156587 3
1622.982	20	61614.97	005	14357 2 — 75972° 1	1684.739	200	59356.37	.002	23183 2 — 82540° 2
1624.825	10	61545.08	001	36164 4 — 97709° 5	1686.317	1	59300.83	005	72481 1 — 131782° 1
1625.216	30	61530.28	002	32587 3 — 94117° 3	1686.705	1	59287.19	003	32387 2 - 91674° 2
1625.729	5	61510.86	.001	32587 3 — 94098° 4	1687.393	5	59263.01	003	31323 2 - 90586° 2
1627.722	3	61435.55	001	31323 2 — 92758° 3	1689.067	2	59204.28	.003	88499° 3 — 147703 4
1628.049	1	61423.21	006	94955° 4 — 156378 4	1689.362	5	59193.94	.003	97184° 4 — 156378 4
1630.742	10	61321.77	.006	32387 2 — 93709° 1	1690.911	20	59139.71	001	75972° 1 — 135112 2
1632.518	20	61255.06	.000	32387 2 — 93642° 2	1691.790	1	59108.99	.000	84544° 4 — 143653 5
1634.303	5	61188.16	001	82009° 4 — 143198 4	1691.980	2	59102.35	006	16714 5 — 75816° 4
1635.660	5	61137.40	004	33155 0 — 94292° 1	1692.159	10	59096.10	001	43461 3 - 102557° 3
1637.864	1	61055.13	.001	32587 3 — 93642° 2	1692.413	10	59087.23	001	32587 3 — 91674° 2
1638.787	1	61020.74	.000	36164 4 — 97184° 4	1693.419	5	59052.13	.000	56741 2 — 115794° 2
1640.044	5	60973.97	002	83147° 5 — 144121 5	1693.589	20	59046.20	004	76836° 2 — 135882 3
1640.267	30	60965.68	002	15871 3 — 76836° 2	1694.499	5	59014.49	001	74724° 3 — 133739 4
1640.595	5h	60953.49	008	81040° 3 — 141993 3	1695.242	30	58988.62	001	32398 4 91387° 4
1642.932	50	60866.79	005	19487 3 — 80354° 3	1695.404	10	58982.99	.000	75816° 4 — 134799 5
1643.200	2	60856.86	006	82540° 2 — 143396 3	1695.529	10	58978.64	.002	31323 2 - 90301° 1
1643.282	5	60853.82	002	103485 4 — 164339° 3	1695.881	2	58966.40	008	44655 4 — 103621° 5
1643.793	1	60834.91	.000	32387 2 — 93222° 1	1696.873	1	58931.92	.003	88499° 3 — 147431 4
1644.839	2	60796.22	006	13928 2 — 74724° 3	1698.766	1061	58866.25	001	77113° 5 — 135979 6
1645.334	10	60777.93	003	19576 2 — 80354° 3	1699.274	10	58848.66	003	75816° 4 — 134665 3
1645.371	100	60776.56	003	13948 3 — 74724° 3	1699.559	20	58838.79	003	74724° 3 — 133563 2
			003	31323 2 — 92099° 2	1699.952	50	58825.19	001	47978 2 — 106803° 3
1647.366	30	60702.96	.002	32519 1 — 93222° 1	1700.280	5	58813.84	009	73853° 2 — 132666 3
			.002	82009° 4 — 142712 5	1701.195	20	58782.20	008	19896 1 — 78677° 1
			.004	32398 4 — 93102° 4	1702.294	10	58744.25	002	77113° 5 — 135857 4
1647.809	20	60686.64	.001	82009° 4 — 142696 4	1703.685	5	58696.29	008	92884° 5 — 151580 5
1647.942	10	60681.74	003	83147° 5 — 143829 6	1704.428	40	58670.70	005	19487 3 — 78158° 3
1648.147	5	60674.20	.003	36164 4 — 96838° 3	1704.659	5	58662.75	.003	32387 2 — 91050° 3
1649.968	5	60607.23	.003	53407 0 — 114014° 1	1704.991	5	58651.33	.002	32398 4 — 91050° 3
1650.307	30	60594.78	.002	56741 2 — 117336° 2	1705.861	2	58621.42	.001	44655 4 — 103276° 4
1652.489	20	60514.77	004	32587 3 — 93102° 4	1706.249	2	58608.09	002	32398 4 — 91006° 5
1652.738	2	60505.65	.002	83147° 5 — 143653 5	1706.354	1	58604.48	003	76836° 2 — 135441 2
1654.354	1 <b>h</b>	60446.55	.000	85896° 4 — 146342 5	1707.014	5	58581.82	002	19576 2 — 78158° 3
1654.834	2	60429.02	006	20611 4 81040° 3	1707.730	30	58557.26	.002	58730 4 — 117287° 4
1654.867	2	60427.81	007	55366 1 — 115794° 2	1710.486	20	58462.91	.000	32587 3 — 91050° 3
1655.656	30	60399.02	003	16714 5 — 77113° 5	1711.090	5	58442.27	008	16282 4 — 74724° 3
1656.430	5h	60370.79	.010	32387 2 — 92758° 3	1711.854	20	58416.19	002	78158° 3 — 136574 4
	10	60359.64	.002	32398 4 — 92758° 3	1712.144	5	58406.30	001	77557 2 — 135963° 2
1656.736						-			
1656.736 1661.337	20	60192.48	.006	91387° 4 — 151580 5				005	84544° 4 — 142950 5

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.a	Wavenumber	0-C	Classification	Wavelength	Int.a	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J
1713.056	5	58375.20	.000	73853° 2 — 132228 2	1750.539	1	57125.26	006	35129 5 — 92254° 5
1715.996	1	58275.19	.001	76836° 2 — 135112 2	1752.720	40	57054.17	.008	85896° 4 — 142950 5
1716.031	10	58274.00	.003	93306° 6 — 151580 5	1753.782	10	57019.63	.006	46601 4 — 103621° 5
1716.783	5	58248.48	007	89503° 4 — 147752 5	1755.323	1	56969.57	.007	88067 2 — 145036° 1
1717.841	10	58212.60	.001	75972° 1 — 134185 1	1755.823	20	56953.34	.009	78158° 3 — 135112 2
1718.258	40	58198.47	.002	32387 2 — 90586° 2	1756.216	2	56940.60	.007	19896 1 — 76836° 2
1719.151	2	58168.24	.005	84544° 4 — 142712 5	1756.303	500	56937.78	.006	36164 4 — 93102° 4
1721.246	2h	58097.44	001	72356 2 — 130453° 3	1757.557	1061	56897.15	001	77113° 5 — 134010 6
1722.352	30	58060.14	001	73853° 2 — 131913 2	1757.643	1	56894.37	.003	79497° 4 — 136391 5
1722.719	50	58047.77	005	73853° 2 — 131900 1	1758.468	100	56867.68	.006	74724° 3 — 131592 3
1724.104	20	58001.14	002	32587 3 — 90588° 3	1759.457	5	56835.71	.006	43561 3 — 100397° 3
1724.672	5	57982.03	002	15871 3 — 73853° 2	1760.050	10	56816.56	.006	85896° 4 — 142712 5
1725.522	20	57953.47	.002	36164 4 — 94117° 3	1760.480	1	56802.69	.004	33452 3 — 90255° 4
1726.099	20	57934.10	.004	36164 4 — 94098° 4	1760.553	60	56800.33	.002	85896° 4 — 142696 4
1726.692	10	57914.20	.005	32387 2 — 90301° 1	1761.305	10	56776.08	.001	73853° 2 — 130629 1
1726.760	1	57911.92	007	88067 2 — 145978° 2	1761.774	30	56760.96		86892° 5 — 143653 5
1728.395	1	57857.14	005	23183 2 — 81040° 3	1762.041	30	56752.36	.000	32387 2 — 89139° 1
1728.622	10	57849.54	005	56741 2 — 114591° 3	1762.074	1061	56751.30	.000	91006° 5 — 147758 6
1729.604	20	57816.70	008	98562° 3 — 156378 4	1762.845	10Hh	56726.48	.003	76836° 2 — 133563 2
			.000	31323 2 — 89139° I	1763.042	100	56720.14	.000	36164 4 — 92884° 5
1729.636	20	57815.63	004	88441° 6 — 146257 7	1763.629	10	56701.26	.000	32398 4 — 89100° 4
1729.829	2	57809.18	.001	91006° 5 — 148816 5	1764.638	60	56668.84	.005	77113° 5 — 133782 5
1730.269	2	57794.48	006	73853° 2 — 131647 2	1764.935	5	56659.31	.000	46962 5 — 103621° 5
1731.078	2	57767.47	.000	58730 4 — 116497° 3	1765.135	10	56652.89	002	89689° 5 — 146342 5
1731.193	20	57763.63	.000	86892° 5 — 144656 4	1766.024	5	56624.37	001	94955° 4 — 151580 5
1732.656	5	57714.86	.001	49088 2 — 106803° 3	1767.469	10	56578.07	005	27006 3 — 83584° 3
1733.092	2	57700.34	.001	89482 3 — 147182° 2	1769.240	30	56521.44	.000	75816° 4 — 132337 3
1733.134	20h	57698.94	.003	78158° 3 — 135857 4	1769.522	300	56512.43	.000	73853° 2 — 130365 3
1733.923 1734.070	1 1	57672.68 57667.79	003 004	85896° 4 — 143568 4 32587 3 — 90255° 4	1769.697 1770.029	10Ы 10	56506.84 56496.24	007 003	78158° 3 — 134665 3 89482 3 — 145978° 2
1005 006	40	57620.04	000	#501/9 A 12244/ A	1770 103	_	56102.24	007	700479 1 125441 0
1735.206	40	57630.04	002	75816° 4 — 133446 4	1770.123	5	56493.24	.006	78947° 1 — 135441 2
1736.379	30	57591.11	002	75972° 1 — 133563 2	1770.301	5	56487.56	.000	31323 2 — 87810° 3
1737.720	5	57546.67	004 .001	20611 4 — 78158° 3 73853° 2 — 131396 1	1770.869	2 20	56469.45	.000 —.001	89482 3 — 145951° 4 79467° 2 — 135882 3
1737.837 1738.022	40 30	57542.79 57536.67	004	75972° 1 — 133508 0	1772.578 1773.036	20	56415.00 56400.43	.000	89503° 4 — 145904 5
1738.322	30	57526.17	00 <del>4</del>	73853° 2 — 131379 2	1773.647	30	56381.00	002	91050° 3 — 147431 4
1739.112	30	57500.61	.000	85896° 4 — 143396 3	1774.389	100	56357.42	002 001	75816° 4 — 132173 4
1741.293	2	57428.58	.000	91387° 4 — 148816 5	1774.648	1	56349.20	001 002	79508° 3 — 135857 4
1742.240	1	57397.37	010	43461 3 — 100858° 4	1774.699	1	56347.58	.000	74724° 3 — 131072 2
1743.458	2	57357.27	004	32418 1 — 89775° 0	1774.863	5	56342.37	002	88441° 6 — 144783 6
1743.732	40	57348.26	003	76836° 2 — 134185 1	1775.146	50	56333.39	006	77113° 5 — 133446 4
1745.144	10	57301.86	001	85896° 4 — 143198 4	1775.288	2	56328.88	008	19487 3 — 75816° 4
1745.471	20	57291.12	003	32398 4 — 89689° 5	1775.692	5	56316.07	.001	91387° 4 — 147703 4
1745.500	2Ht		006	78689° 6 — 135979 6	1775.720	5НЫ		006	76836° 2 — 133151 3
1745.615	1	57286.40	.003	42665 2 — 99952° 2	1776.308	100	56296.54	.000	32843 2 — 89139° 1
1745.728	50	57282.69	.003	78158° 3 — 135441 2	1777.749	1	56250.91	.005	32418 1 — 88669° 0
1745.795	1h	57280.49	.003	88067 2 — 145347° 2	1778.370	1	56231.26	.003	80343° 5 — 136574 4
1746.149	50	57268.88	.003	31323 2 — 88592° 2	1778.725	40	56220.04	.000	80354° 3 — 136574 4
1746.291	20	57264.22	.007	87391° 3 — 144656 4	1778.900	5h	56214.51	005	89689° 5 — 145904 5
1746.362	10	57261.89	.002	49541 4 — 106803° 3	1779.215	60	56204.56	.002	32387 2 — 88592° 2
1746.418	40	57260.06	.003	19576 2 — 76836° 2	1779.567	200	56193.44	.000	74724° 3 — 130918 4
1746.474	50	57258.22	001	77113° 5 — 134371 5	1779.672	30	56190.12	.000	100397° 3 — 156587 3
1746.528	50	57256.45	.000	32519 1 — 89775° 0	1780.088	50	56176.99	.000	87391° 3 — 143568 4
1747.364	5Ы	57229.06	001	86892° 5 — 144121 5	1780.488	5	56164.37	002	78947° 1 — 135112 2
1747.674	20	57218.90	.006	73853° 2 — 131072 2	1780.721	1	56157.02	.001	88499° 3 — 144656 4
1748.387	10h	57195.57	.010	72187 3 — 129383° 4	1780.932	80	56150.37	.000	32519 1 — 88669° 0
1748.977	50	57176.28	003	90255° 4 — 147431 4		-		006	31323 2 — 87473° 2
	-		005	31323 2 — 88499° 3	1781.361	1	56136.85	.007	78158° 3 — 134295 3
1750.095	60	57139.75	.000	19973 6 — 77113° 5	1782.156	20	56111.81	002	32387 2 — 88499° 3
1750.273	20	57133.94	005	33452 3 — 90586° 2	1782.843	1	56090.18	.010	36164 4 — 92254° 5
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Table 3. Classified lines of Mo III-Continued

Wavelength	Int.a	Wavenumber	0-C	Classification	Wavelength	Int.a	Wavenumber	0-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J
1782.921	5	56087.73	001	90255° 4 — 146342 5	1809.789	60	55255.06	.003	92728° 6 — 147984 6
1783.277	20	56076.53	006	19896 1 — 75972° 1	1810.350	200	55237.93	.000	91098 4 — 146336° 4
1783.521	1	56068.86	006	31323 2 — 87391° 3	1810.465	50	55234.42	003	92728° 6 — 147963 7
1783.865	40	56058.05	100.—	86892° 5 — 142950 5	1810.831	30	55223.26	.001	32587 3 — 87810° 3
1783.990	60	56054.12	.000	86892° 5 — 142946 5				.007	36164 4 — 91387° 4
1785.563	40	56004.74	001 001	32587 3 — 88592° 2	1811.944	20 10	55189.34	003	58893 3 — 114083° 2
1786.568 1787.222	5h 10	55973.24 55952.75	001 007	79467° 2 — 135441 2 49088 2 — 105041° 1	1812.361 1812.546	10h	55 176.64 55 171.01	.002 .000	92254° 5 — 147431 4 79013° 2 — 134185 1
1787.598	10	55940.98	002	75972° 1 — 131913 2	1812.707	20	55166.11	005	80095° 4 — 135261 4
1787.866	2	55932.60	.009	79508° 3 — 135441 2	1813.299	5	55 148.10	.000	72187 3 — <b>127336</b> ° 2
								001	19576 2 — 74724° 3
1787.958	200	55929.72	001	86892° 5 — 142822 6					
1788.224	200	55921.40	.000	77113° 5 — 133034 4	1813.572	20	55139.80	.001	33452 3 — 88592° 2
1788.529	10	55911.86	001	32587 3 — 88499° 3	1813.666	50	55136.94	.003	88067 2 — 143204° 2
1789.748	40	55873.78	.000	91098 4 — 146972° 3	1814.828	40	55101.64	.000	75816° 4 — 130918 4
1790.027 1790.168	30 20	55865.07 55860.67	001 .004	89482 3 — 145347° 2 58730 4 — 114591° 3	1814.882	100	55100.00	002 003	75972° 1 — 131072 2 92884° 5 — 147984 6
1790.108	200	55838.00	.001	77113° 5 — 132951 5	1815.078	200	55094.05	.000	89689° 5 — 144783 6
1791.991	20	55803.85	.004	86892° 5 — 142696 4	1815.117	200h	55092.86	003	78689° 6 — 133782 5
1792.398	300	55791.18	.005	75816° 4 — 131607 5	1815.309	500	55087.04	001	88441° 6 — 143528 7
1792.865	5	55776.64	.005	48734 1 104511° 2	1815.658	50	55076.45	.001	76836° 2 — 131913 2
					1815.884	40	55069.59	.000	88499° 3 — 143568 4
1793.251	2	55764.64	006	79497° 4 — 135261 4					
1793.975	3h	55742.13	.004	88067 2 — 143809° 3	1816.070	2	55063.95	.001	76836° 2 — 131900 I
1501 200	40	55500 00	.008	44655 4 100397° 3	1817.412	30	55023.29	005	92728° 6 — 147752 5
1794.398	40 10h	55728.99	.004 .006	100858° 4 — 156587 3 93102° 4 — 148816 5	1818.547	2	54988.95	.005 001	59059 2 — 114083° 2 102557° 3 — 157546 3
1794.884 1795.405	40	55713.90 55697.74	.008	77557 2 — 133255° 3	1818.582	20	54987.89	.001	32843 2 — 87831° 1
1795.405	100	55682.07	003	78689° 6 — 134371 5	1819.010	50	54974.95	008	23183 2 — 78158° 3
1795.974	80	55680.09	003	88441° 6 — 144121 5	1819.296	40	54966.31	.001	89689° 5 — 144656 4
1796.135	40	55675.10	.000	75972° 1 — 131647 2	1819.661	20	54955.29	002	91387° 4 — 146342 5
1796.912	5	55651.02	.002	79013° 2 — 134665 3				005	59059 2 — 114014° 1
					1819.703	30	54954.02	002	32519 1 — 87473° 2
1796.975	2	55649.07	.005	90255° 4 — 145904 5					
1797.017	2	55647.77	.005	33452 3 — 89100° 4	1821.010	5	54914.58	.000	75972° 1 — 130886 1
1797.136	30	55644.09	.001	79467° 2 — 135112 2 80343° 5 — 135979 6	1821.257	30	54907.13	002	80354° 3 — 135261 4
1797.393 1797.435	40Ы 100	55636.13	.006 .002	80343° 5 — 135979 6 88067 2 — 143701° 3	1821.571 1821.955	40b1 80	54897.66 54886.09	003 005	88499° 3 — 143396 3 87810° 3 — 142696 4
1798.782	100	55634.83 55593.17	.002	89482 3 — 145075° 4	1021.933	80	34600.03	.006	36164 4 — 91050° 3
1799.626	5	55567.10	.000	86426° 2 — 141993 3				006	32587 3 — 87473° 2
1799.944	200	55557.28	003	91098 1 — 146655° 5	1822.284	100	54876.18	.003	78158° 3 — 133034 4
1800.884	20	55528.28	003	103485 4 — 159013° 5	1822.354	200	54874.08	002	92884° 5 — 147758 6
			.004	80354° 3 — 135882 3	1822.560	10	54867.87	.001	92884° 5 — 147752 5
					1823.039	50	54853.46	.001	91098 4 — 145951° 4
1801.148	50bl	55520.14	.000	100858° 4 — 156378 4	1022 205	60	64042.76	.004	26164 4 010069 5
1801.200 1801.342	50Ы 40	55518.54 55514.16	.008 .003	88067 2 — 143585° 2 80343° 5 — 135857 4	1823.395 1823.510	50	54842.75 54839.29	004 005	36164 4 — 91006° 5 64331 3 — 119170° 2
1801.882	50	55497.53	.003	92254° 5 — 147752 5	1823.791	20 1	54830.84	003 .004	78677° 1 — 133508 0
1802.962	10	55464.28	.008	34225 4 — 89689° 5	1823.893	50	54827.77	007	79467° 2 — 134295 3
1803.456	1	55449.09	.000	92254° 5 — 147703 4	1824.172	50	54819.39	.001	92884° 5 — 147703 4
1803.664	100	55442.69	.003	76836° 2 — 132279 3	1824.461	30	54810.70	003	76836° 2 — 131647 2
1803.778	1	55439.19	.007	72356 2 — 127795° 3	1824.656	5	54804.85	004	88592° 2 — 143396 3
1804.289	20	55423.49	.005	75972° 1 — 131396   l	1826.233	1	54757.52	.001	80354° 3 — 135112 2
1804.649	3	55412.43	.003	32418 1 — 87831° 1	1826.293	50	54755.72	.002	76836° 2 — 131592 3
		eenne no	201	# COOK O 100000 0	1828.024	20	54703.87	.000	80095° 4 — 134799 5
1805.335	10	55391.38	.006	76836° 2 — 132228 2	1920 106	1	64600 76	003	99400° r 142100 4
1805.451	60 3	55387.82 55377.51	002 .007	88441° 6 — 143829 6 51425 3 — 106803° 3	1828.195 1828.870	1 10	54698.76 54678.57	.002 .004	88499° 3 — 143198 4 50362 1 — 105041° 1
1805.787 1807.150	10	55377.51 55335.75	.007	91006° 5 — 146342 5	1828.962	80	54675.82	004 001	33155 0 — 87831° I
1807.130	8061	55330.02	003	89482 3 — 144812° 3	1829.076	10	54672.41	001 004	96907° 6 — 151580 5
1807.485	20	55325.49	.001	47978 2 — 103303° 2	. 10231010	-0		.007	92758° 3 — 147431 4
1807.952	500	55311.20	003	77113° 5 — 132424 6	1829.587	300	54657.14	.002	93306° 6 — 147963 7
1808.244	1061	55302.27	.004	79497° 4 — 134799 5				007	75972° 1 — 130629 1
1808.672	2	55289.18	.001	93306° 6 — 148595 7	1829.887	500	54648.18	.000	78689° 6 — 133337 7
1808.714	10	55287.90	.006	78158° 3 — 133446 4	1830.495	30	54630.03	.000	32843 2 — 87473° 2
					1830.907	80	54617.73	.002	89503° 4 — 144121 5

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.a	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J
1830.987	40	54615.35	.010	78947° 1 — 133563 2	1856.661	1h	53860.12	.004	94955° 4 — 148816 5
1832.212	10h	54578.83	006	49088 2 — 103667° 3	1856.988	100	53850.64	006	89100° 4 — 142950 5
1832.524	1	54569.54	.004	48734 1 — 103303° 2	1857.124	50	53846.70	~.004	89100° 4 — 142946 5
			003	80095° 4 — 134665 3	1858.255	10	53813.92	.002	52697 4 — 106511° 4
1832.686	2h	54564.72	003	82009° 4 — 136574 4	1858.871	30	53796.09	.000	46601 4 — 100397° 3
1832.807	2h	54561.11	.001	78947° 1 — 133 <i>5</i> 08 0	1859.529	80	53777.05	.000	91006° 5 — 144783 6
1832.873	1	54559.15	.001	76836° 2 — 131396 1	1860.298	40	53754.82	.002	78158° 3 — 131913 2
			002	46299 3 — 100858° 4	1860.985	20	53734.98	003	78689° 6 — 132424 6
1833.281	5	54547.01	.001	92884° 5 — 147431 4				.003	49541 4 — 103276° 4
1834.171	5	54520.54	.002	87473° 2 — 141993 3	1861.395	10	53723.14	.000	43461 3 — 97184° 4
1834.301	10	54516.68	.003	91387° 4 — 145904 5	1861.457	1h	53721.35	.005	89482 3 — 143204° 2
1834.585	80	54508.24	.001	78158° 3 — 132666 3	1861.879	2	53709.18	.002	91387° 4 — 145096 4
			.001	90588° 3 — 145096 4	1862.403	20	53694.07	.004	89503° 4 — 143198 4
1835.040	30Ы	54494.72	005	77113° 5 — 131607 5	1862.657	50	53686.75	002	80095° 4 — 133782 5
1835.918	10	54468.66	001	89100° 4 — 143568 4	1863.335	300	53667.21	.000	80343° 5 — 134010 6
1836.475	10	54452.14	001	93306° 6 — 147758 6	1863.771	30	53654.66	.002	79497° 4 — 133151 3
1836.683	60	54445.97	.001	93306° 6 — 147752 5	1863.836	5	53652.78	002	79013° 2 — 132666 3
1837.413	40	54424.34	.003	36164 4 — 90588° 3				004	46299 3 — 99952° 2
1838.189	5	54401.37	005	90255° 4 — 144656 4	1863.951	10	53649.47	004	91006° 5 — 144656 4
1838.890	20	54380.63	.002	88441° 6 — 142822 6	1864.870	30	53623.04	<b>-</b> .001	43561 3 — 97184° 4
1839.638	30	54358.52	003	33452 3 — 87810° 3	1865.474	40D	53605.67	.010	91050° 3 — 144656 4
1840.539	10	54331.91	006	42404 i — 96736° i	1866.184	100	5358 5.28	.000	34225 4 — 87810° 3
1840.715	10	54326.71	.000	89482 3 — 143809° 3	1866.247	2	53583.47	.002	32843 2 — 86426° 2
1841.260	10	54310.63	002	80354° 3 — 134665 3	1867.068	50	53559.91	.004	94424° 7 — 147984 6
1842.119	200	54285.30	004	79497° 4 — 133782 5	1867.399	10	53550.42	.001	78677° 1 — 132228 2
1842.431	2h	54276.11	008	80095° 4 — 134371 5	1867.465	5	53 548. 52	.001	92728° 6 — 146277 6
1842.641	5h	54269.93	002	103276° 4 — 157546 3	1867.792	5b1	53539.15	.003	94424° 7 — 147963 7
1842.916	2	54261.83	001	78689° 6 — 132951 5	1867.846	40h	53537.60	.000	79497° 4 — 133034 4
1843.074	10	54257.18	003	46601 4 — 100858° 4	1868.176	100	53528.14	.001	92728° 6 — 146257 7
1843.567	10	54242,67	002	103303° 2 — 157546 3	1868.257	300	53525.82	.002	36164 4 — 89689° 5
1843.811	40	54235.49	.000	76836° 2 — 131072 2	1869.345	50	53494.67	.001	88499° 3 — 141993 3
1845.109	40	54197.34	.002	88499° 3 — 142696 4	1869.547	10	53488.89	.005	78158° 3 — 131647 2
1845.523	1	54185.18	.000	42404 1 — 96589° 2	1870.612	30	53458.44	.004	92884° 5 — 146342 5
1845.952	5	54172.59	001	42665 2 — 96838° 3	1870.765	40	53454.06	.005	79497° 4 — 132951 5
1846.739	30	54149.50	.005	89503° 4 — 143653 5	1871.022	1h	53446.72	.003	89503° 4 — 1429 <i>5</i> 0 <i>5</i>
1847.082	80	54139.44	.001	89689° 5 — 143829 6	1871.157	30	53442.87	.001	89503° 4 — 142946 5
1848.240	80	54105.52	.005	52697 4 — 106803° 3	1871.291	80	53439.04	.002	80343° 5 — 133782 5
1848.497	10	54098.00	.003	46299 3 — 100397° 3	1871.465	20	53434.07	.004	78158° 3 — 131592 3
1848.587	5	54095,37	005 .003	89100° 4 — 143198 4 79467° 2 — 133563 2	1872.595 1872.713	20 20	53401.83 53398.46	.000 001	88592° 2 — 141993 3 90255° 4 — 143653 5
1040.507	3	54075.51	.003	77407 2 — 155505 2	10/2./15	20		,001	70233 4 — 143033 3
1848.742	80	54090.83	.006	36164 4 — 90255° 4	1872.893	50	53393.33	.000	92884° 5 — 146277 6
1848.834	10	54088.14	.003	92254° 5 — 146342 5	1874.380	80	53350.97	003	80095° 4 — 133446 4
1849.532	10	54067.73	.002	90588° 3 — 144656 4	1874.773	20	53339.79	.001	36164 4 — 89503° 4
1850.139	30	54049.99	.005	76836° 2 — 130886 1	1874.953	5	53334.67	002	42521 2 — 95856° 3
1850.878	100	54028.41	004	80343° 5 — 134371 5	1875.328	20	53324.00	001	79013° 2 — 132337 3
1851.063	50	54023.01	.000	92254° 5 — 146277 6	1875.692	50	53313.65	.000	94117° 3 — 147431 4
1851.130	40	54021.05	.000	33452 3 — 87473° 2				.003	90255° 4 — 143568 4
1851.324	20	54015.39	.003	78158° 3 — 132173 4	1875.791	20h	533 10.84	.008	103276° 4 — 156587 3
1851.617	200	54006.84	.001	31323 2 — 85329° 2	1876.856	2	53280.59	.002	78947° 1 — 132228 2
1852.339	50	53985. <b>7</b> 9	.001	31323 2 — 85308° I	1877.001	1	53276.47	.004	43561 3 — 96838° 3
1852.857	100	53970.70	.000	35129 5 — 89100° 4	1877.273	30	53268.75	.000	91387° 4 — 144656 4
1853.322	5	53957.16	.001	19896 1 — 73853° 2	1877.383	20	53265.63	001	79013° 2 — 132279 3
1853.589	60	53949.39	.000	79497° 4 — 133446 4	1877.757	100ы	53255.02	008	81040° 3 — 134295 3
1853.880	5	53940.92	.003	80354° 3 — 134295 3	1877.872	100	53251.76	004	82009° 4 — 135261 4
1853.932	5	53939.41	.005	33452 3 — 87391° 3	1878.152	100	53243.82	001	83147° 5 — 136391 5
18 <i>5</i> 4. <i>5</i> 89	20	53920.30	.003	46299 3 — 100219° 2	1878.265	80	53240.62	.004	93102° 4 — 146342 5
1855.155	30	53903.85	.004	32418 1 — 86322° 0	1878.895	50	53222.77	.003	78677° 1 — 131900 1
1855.399	100	53896.76	007	46962 5 — 100858° 4	1878.967	40	53220.73	.002	78158° 3 — 131379 2
1856.016	20	53878.84	.002	89689° 5 — 143568 4	18 <b>7</b> 9.189	50	53214.44	001	79013° 2 — 132228 2
1856.445	1h	53866.39	.007	90255° 4 — 144121 5	1879.380	50	53209.03	.002	89503° 4 — 142712 5
					i			004	80354° 3 — 133563 2

Table 3. Classified lines of Mo III-Continued

Wavelength (Å)	Int.a	Wavenumber (cm <sup>-1</sup> )	O-C (Å)	Classification Level J Level J	Wavelength (Å)	Int.ª	Wavenumber (cm <sup>-1</sup> )	O-C (Å)	Classification Level J Level J
(A)		——————————————————————————————————————	(A)	Devel 3 Level 3	(A)		(cm )	(A)	Level J Level J
1879.954	5Hb		001	89503° 4 — 142696 4	1897.829	30	52691.78	003	90255° 4 — 142946
1880.564	2	53175.53	007	92728° 6 — 145904 5	1898.246	60h	52680.21	.000	80354° 3 — 133034 4
1880.774	50h	53169.59	.000	79497° 4 — 132666 3	1898.369	30	52676.79	.000	79497° 4 — 132173 4
1880.885	50	53166.46	002	34225 4 — 87391° 3	1898.775	200	52665.53	.001	79508° 3 — 132173 4
1880.979	1	53163.80	002	32519 1 — 85683° 1	1899.145	60	52655.27	004	82009° 4 — 134665 3
1881.173	100	53158.32	.002	79508° 3 — 132666 3	1899.454	100	52646.70	<b>004</b>	91006° 5 — 143653 5
1881.753	5	53141.93	007	90255° 4 — 143396 3	1900.794	40	52609.59	.000	90588° 3 — 143198 4
1881.829	100	53139.79	.000	50481 6 — 103621° 5	1900.849	40	52608.07	.001	80343° 5 — 132951 5
1882.090	30	53132.42	.000	89689° 5 — 142822 6	1902.153	100D	52572.00	003	82540° 2 — 135112 2
1882.718	20	53114.69	.002	91006° 5 — 144121 5	1902.182	2061	52571.20	004	80095° 4 — 132666 3
1883.120	30	53103.36	002	80343° 5 — 133446 4	1902.521	1	52561.83	.002	91006° 5 — 143568 4
1883.164	20	53102.12	001	103276° 4 — 156378 4	1903.648	5	52530.72	.000	96285° 5 — 148816 5
1884.792	40	53056.25	001	80095° 4 — 133151 3	1903.694	10	52529.45	.000	92254° 5 — 144783 6
1884.880	200	53053.77	.001	44655 4 — 97709° 5				.001	44655 4 — 97184° 4
1885.531	5	53035.45	.001	104511° 2 — 157546 3	1903.940	40	52522.66	.002	81040° 3 — 133563 2
1885.786	30	53028.28	001	51482 2 — 104511° 2	1904.090	10	52518.52	001	91050° 3 — 143568 4
			006	43561 3 — 96589° 2	1904.174	2	52516.20	.003	77557 2 — 130073° 2
1885.974	80	53023.00	.001	89689° 5 — 142712 5	1904.958	30	52494.59	004	42521 2 — 95016° 1
1886.078	60	53020.07	.001	92884° 5 — 145904 5	1905.119	30	52490.15	004	89503° 4 — 141993 3
1886.223	100	53016.00	.000	49541 4 — 102557° 3	1905.656	20	52475.36	.000	94955° 4 — 147431 4
1886.593	40	53005.60	001	64331 3 — 117336° 2	1906.009	60	52465.64	.000	32843 2 — 85308° 1
1886.684	20	53003.04	003	72356 2 — 125359° 2	1906.290	60	52457.91	001	90255° 4 — 142712 5
1887.493	5	52980.32	.000	90588° 3 — 143568 4	1906.635	30D	52448.42	007	78947° 1 — 131396 1
1887.809	100	52971.46	001	93306° 6 — 146277 6	1906.745	30	52445.39	001	79467° 2 — 131913 2
1888.293	100	52957.88	.001	50318 5 — 103276° 4	1906.883	30	52441.60	002	90255° 4 — 142696 4
1888.465	50	52953.06	001	78947° 1 — 131900 1	1908.602	40h	52394.37	.000	78677° 1 — 131072 2
1888.535	50	52951.09	002	93306° 6 — 146257 7	1909.052	5h	52382.02	.000	79013° 2 — 131396 1
1888.825	60	52942.96	.001	90255° 4 — 143198 4	1909.663	10	52365.26	001	79013° 2 — 131379 2
1890.329	5h	52900.84	.008	82540° 2 — 135441 2	1910.199	10	52350.56	001	42665 2 — 95016° 1
1890.380	50	52899.41	003	79013° 2 — 131913 2	1910.346	5	52346.53	001	91050° 3 — 143396 3
1890.709	30	52890.21	.002	32418 1 — 85308° 1	1910.654	50	52338.10	.001	92758° 3 — 145096 4
1890.831	20	52886.80	.001	79013° 2 — 131900 1	1910.757	80	52335.27	004	36164 4 — 88499° 3
1891.438	20	52869.82	.007	79467° 2 — 132337 3	1911.366	50	52318.60	001	78568° 0 — 130886 1
1891.941	200	52855.77	003	80095° 4 — 132951 5	1912.105	100	52298.38	.000	83584° 3 — 135882 3
1892.421	40	52842.36	005	92254° 5 — 145096 4	1912.239	1	52294.71	001	43561 3 — 95856° 3
1892.477	40h	52840.80	.002	79497° 4 — 132337 3	1913.034	30	52272.98	002	83584° 3 — 135857 4
1892.800	200	52831.78	002	83147° 5 — 135979 6	1913.290	50	52265.99	.000	91387° 4 — 143653 5
1892.877	40	52829.63	.000	79508° 3 — 132337 3	1914.074	5h	52244.58	004	94098° 4 — 146342 5
1892.950	10h	52827.59	.001	78568° 0 — 131396 1	1914.155	50	52242.37	001	80095° 4 — 132337 3
1893.131	80	52822.54	002	91006° 5 — 143829 6	1914.133	50	52241.47	.001	47978 2 — 100219° 2
1073.131	30	32022.37	002	71000 5 143027 0	1714.100	50	32241.47	.001	51425 3 — 103667° 3
1893.519	30b1	52811.72	002	79467° 2 — 132279 3					
1893.553	60	52810.77	.001	90586° 2 — 143396 3	1914.604	10	52230.12	.003	52811 I — 105041° 1
			005	32519 1 — 85329° 2	1915.380	10	52208.96	.002	78677° 1 — 130886 1
1893.645	2h	52808.20	.005	90588° 3 — 143396 3	1915.483	40	52206.15	.001	47978 2 — 100184° 1
1894.036	60	52797.30	.001	80354° 3 — 133151 3	1916.112	10	52 189.01	.004	103485 4 — 155674° 4
1894.313	200	52789.58	.000	82009° 4 — 134799 5	1916.321	5	52183.32	010	44655 4 96838° 3
			.000	32519 1 — 85308° 1	1916.460	5	52179.53	001	79467° 2 — 131647 2
1894.561	10	52782.67	006	79497° 4 — 132279 3	1916.927	5	52166.82	002	64331 3 — 116497° 3
1894.977	2	52771.08	.006	79508° 3 — 132279 3	1917.413	40	52153.60	002	33155 0 — 85308° 1
1895.357	100	52760.50	001	79467° 2 — 132228 2	1917.628	20bl	52147.75	001	91050° 3 — 143198 4
					1917.702	300	52145.74	004	32398 4 — 84544° 4
1895.468	50	52757.41	.000	103621° 5 — 156378 4	<b>\</b>				
1895.999	10	52742.64	001	32587 3 — 85329° 2	1917.946	5	52139.11	.000	79508° 3 — 131647 2
1896.303	30	52734.18	001	91387° 4 — 144121 5	1918.467	40	52124.95	001	82540° 2 — 134665 3
1896.810	40	52720.09	001	79508° 3 — 132228 2	1918.993	20	52110.66	.003	79497° 4 — 131607 5
1896.887	20	52717.95	.004	78677° 1 — 131396 1	1919.087	10	52108.11	.001	90588° 3 — 142696 4
1897.182	100b1	52709.75	002	83147° 5 — 135857 4	1920.077	60	52081.24	001	80343° 5 — 132424 6
1897.488	100	52701.25	.000	78677° 1 — 131379 2	1920.922	20	52058.33	001	79013° 2 — 131072 2
1897.546	50bl	52699.64	.002	78947° 1 — 131647 2	1921.968	200	52030.00	.001	84544° 4 — 136574 4
1897.590	500	52698.42	.002	81040° 3 — 133739 4	1922.737	2h	52009.19	.004	91387° 4 — 143396 3
1897.686	20	52695.75	006	90255° 4 — 142950 5	1923.447	40	51989.99	.002	43561 3 95551° 2
	20	-20,0,10		1.2500	1924.047	1	51973.78	.002	47978 2 — 99952° 2
					1724.047	1	217/3./0	.000	7/7/0 & — 77734 ,

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.ª	Wavenumber	O-C	Classification
(Å)		$(cm^{-1})$	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level
924.663	60	51957.14	.000	32587 3 — 84544° 4	1953.672	50	51185.66	001	32398 4 — 83584°
924.882	20	51951.23	.005	78677° 1 — 130629 1	1954.603	5	51161.28	.003	79467° 2 — 130629
925.159	20	51943.76	.000	91006° 5 — 142950 5	1955.341	1h	51141.97	002	82009° 4 — 133151
925.305	40h	51939.82	.001	91006° 5 — 142946 5	1955.733	10	51131.72	.002	51425 3 — 102557°
925.854	10	51925.01	.003	80354° 3 — 132279 3	1956.156	10	51120.66	.001	42521 2 — 93642°
926.478	80	51908.19	001	96907° 6 — 148816 5	1956.377	5	51114.89	.003	43561 3 — 94676°
926.792	5h	51899.73	.002	92884° 5 — 144783 6	1957.103	5	51095.93	.000	49088 2 — 100184°
927.609	50	51877.74	.002	33452 3 — 85329° 2	1957.240	10	51092.35	002	33452 3 — 84544°
	40								
927.866		51870.82	.002	79508° 3 — 131379 2	1957.695	40	51080.48	.002	83584° 3 — 134665
928.051	40	51865.84	.001	42521 2 — 94387° 2	1957.857	20	51076.25	003	96907° 6 — 147984
928.400	40	51856.46	.008	83584° 3 — 135441 2	1958.656	10h	51055.41	001	96907° 6 — 147963
928.751	100	51847.02	.001	84544° 4 — 136391 5	1959.453	10	51034.65	.000	106511° 4 — 157546
			.005	95856° 3 — 147703 4	1959.834	10	51024.73	.003	82009° 4 — 133034
929.708	1	51821.31	008	51482 2 — 103303° 2				001	80354° 3 — 131379
929.778	lh	51819.43	001	80354° 3 — 132173 4	1959.890	20	51023.27	.000	82540° 2 — 133563
929.928	1h	51815.40	.001	91006° 5 — 142822 6	1960.028	5	51019.67	002	93102° 4 — 144121
930.104	1h	51810,68	005	91387° 4 — 143198 4	1960.893	200	50997.17	001	32587 3 — 83584°
930.278	40	51806.00	.000	94098° 4 — 145904 5	1961.587	5h	50979.13	.001	94117° 3 — 145096
930.585	2		002	32418 1 — 84216° 0	1961.671	5	50976.94	008	42665 2 — 93642°
930.505	5	51797.77 51770.79	.002	42521 2 — 94292° 1	1962.779	1	50948.17	.010	94955° 4 — 145904
	_					_			
931.872	2	51763.26	004	35129 5 — 86892° 5	1962.956	5	50943.57	.001	91050° 3 — 141993
932.165	80	51755.41	002	82540° 2 — 134295 3		_		002	92254° 5 — 143198
932.783	40	51738.86	001	90255° 4 — 141993 3	1963.039	5	50941.42	001	82009° 4 — 132951
934.283	20h	51698.74	001	96285° 5 — 147984 6	1963.630	2	50926.09	.000	43461 3 — 94387°
934.343	50	51697.14	003	32519 1 — 84216° 0	1963.692	2	50924.48	.003	92728° 6 — 143653
934.709	40	51687.36	.001	96907° 6 — 148595 7	1966.339	10	50855.93	.003	49541 4 - 100397
935.095	200	51677.04	001	83584° 3 — 135261 4	1966.796	2h	50844.11	.003	96907° 6 — 147752
935.789	300	51658.52	.003	54853 5 — 106511° 4	1967.504	40	50825.81	.005	43561 3 - 94387°
936.709	1	51633.98	005	53407 0 — 105041° 1	1967.744	10	50819.61	.000	72187 3 — 123007°
936.853	20	51630.14	002	44655 4 — 96285° 5	1968.106	2	50810.27	003	92758° 3 — 143568
936.973	1	51626.94	002	42665 2 — 94292° 1	1968.511	50	50799.81	005	92728° 6 — 143528
937.005	5h	51626.09	003	81040° 3 — 132666 3	1970.484	10	50748.95	003	32398 4 — 83147°
937.407	10	51615.38	002	79013° 2 — 130629 1	1970.558	10	50747.04	003 003	46962 5 — 97709°
937.817	1		002 003		1970.538	5			
	5	51604.46		79467° 2 — 131072 2			50743.03	002	106803° 3 — 157546
938.924		51574.99	004	92254° 5 — 143829 6	1970.782	10	50741.27	001	32843 2 — 83584°
939.342	5	51563.88	.003	79508° 3 — 131072 2	1971.272	2	50728.66	003	36164 4 — 86892°
939.531	20	51558.85	002	80354° 3 — 131913 2	1974.934	10	50634.60	002	83147° 5 — 133782
939.706	10	51554.20	.002	93 102° 4 — 144656 4	1976.017	1	50606.85	004	81040° 3 — 131647
940.710	10	51527.53	.000	83584° 3 — 135112 2	1976.910	100	50583.99	003	47978 2 — 98562°
941.286	30	51512.24	.000	80095° 4 — 131607 5	1976.940	60	50583.22	001	46601 4 — 97184°
943.007	5	51466,61	.004	96285° 5 — 147752 5	1977.709	1	50563.55	.004	80354° 3 — 130918
943.147	20	51462.91	002	64331 3 — 115794° 2	1978.010	5h	50555.86	002	43561 3 — 94117°
944.142	40b1	51436.57	.001	82009° 4 — 133446 4	1978.636	20	50539.86	001	50318 5 — 100858
944.807	10	51418.98	.001	79467° 2 — 130886 1	1978.680	40	50538.74	.001	46299 3 — 96838°
					1570.000	40	20230.74		94117° 3 — 144656
945.157	20	51409.73	.004	79508° 3 — 130918 4	1070 450		50510.0-	002	
945.746	5	51394.17	003	43561 3 — 94955° 4	1979.458	1	50518.87	002	97184° 4 — 147703
945.801	40	51392.71	001	92728° 6 — 144121 5	1980.476	1	50492.91	.000	52811 1 - 103303
947.359	5	51351.60	.001	79013° 2 — 130365 3	1983.343	40	50419.92	.003	94676° 3 — 145096
947.860	30	51338.39	.000	84544° 4 — 135882 3	1987.289	10	50319.80	.003	54191 2 — 104511
948.006	10	51334.54	.000	47978 2 — 99313° 1	1987.310	50	50319.27	.003	91674° 2 — 141993
948.352	1h	51325.42	.001	91387° 4 — 142712 5				005	34225 4 — 84544°
948.671	5	51317.02	001	49541 4 — 100858° 4	1988.056	80	50300.39	.007	44655 4 — 94955°
948.824	10	51312.99	001 002	84544° 4 — 135857 4	1988.282	8	50294.67	.007	93102° 4 — 143396
	5								97709° 5 — 147984
948.974	5	51309.04	.002	91387° 4 — 142696 4	1989.061	5	50274.97	.002	
			004	49088 2 — 100397° 3	1989.651	2	50260.07	.001	64331 3 — 114591
950.662	1	51264.64	.000	80343° 5 — 131607 5	1990.190	10	50246.45	.000	97184° 4 — 147431
952.221	50	51223.70	.000	83147° 5 — 134371 5	1990.579	8	50236.64	.006	42521 2 — 92758
952.549	50	51215.10	.000	43461 3 — 94676° 3				.005	46601 4 — 96838
	50	51201.12	.002	44655 4 — 95856° 3	1991.133	10	50222.66	.000	46962 5 — 97184°
953.082					1				
953.082 953.239	50	51197.01	.003	32387 2 — 83584° 3				004	93306° 6 — 143 <i>5</i> 28

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.ª	Wavenumber	0-C	Classification	Wavelength	Int.a	Wavenumber	0-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level $J$ Level $J$
1994.724	50	50132.24	.002	33452 3 — 83584° 3	2034.155	5	49144.65	.000	55366 1 — 104511° 2
			.000	85308° 1 — 135441 2	2034.300	5	49141.15	.003	98562° 3 — 147703 4
1995.151	20	50121.52	002	32418 1 — 82540° 2	2035.809	2	49104.73	006	94424° 7 — 143528 7
1995.560	1	50111.24	001	85329° 2 — 135441 2	2036.512	3	49087.78	.005	33452 3 — 82540° 2
1996.288	10	50092.97	005	42665 2 — 92758° 3	2036.548	5	49086.92	002	86892° 5 — 135979 6
1996.965	15	50075.99	005	106511° 4 — 156587 3	2039.299	20	49020.71	.000	49541 4 — 98562° 3
1997.534	20ы	50061.72	.001	56741 2 — 106803° 3	2039.558	1	49014.48	004	86426° 2 — 135441 2
1997.704	15	50057.46	004	96285° 5 — 146342 5	2039.800	50	49008.67	.004	42665 2 — 91674° 2
1998.277	1	50043.11	004	97709° 5 — 147752 5	2040.308	3	48996.47	005	96907° 6 — 145904 5
1999.145	50	50021.38	.003	44655 4 — 94676° 3	2041.335	5	48971.82	002	51425 3 — 100397° 3
2000.901	1	49961.30	002	85896° 4 — 135857 4	2041.620	3h	48964.99	006	86892° 5 — 135857 4
2001.242	30	49952.78	001	32587 3 — 82540° 2	2043.398	15	48922.39	.000	34225 4 — 83147° 5
2001.521	5	49945.82	.000	46962 5 — 96907° 6	2043.711	1	48914.89	004	51482 2 — 100397° 3
2001.826	1	49938.21	003	92884° 5 — 142822 6	2044.195	5	48903.31	001	85896° 4 — 134799 5
2003.878	3h	49887.08	006	83147° 5 — 133034 4	2046.184	5	48855.78	.003	82540° 2 — 131396 1
2004.688	5	49866.93	002	106511° 4 — 156378 4	2048.050	2	48811.28	.003	96285° 5 — 145096 4
2004.980	15	49859.67	.002	52697 4 — 102557° 3	2048.769	2	48794.15	004	51425 3 — 100219° 2
2005.068	3	49857.48	004	50362 1 — 100219° 2	2049.837	1	48768.73	.005	85896° 4 — 134665 3
2005.420 2006.222	1 2	49848.73 49828.81	004 002	93102° 4 — 142950 5 92884° 5 — 142712 5	2050.290 2052.942	10 1	48757.96 48694.98	.001 .004	47978 2 — 96736° 1 83584° 3 — 132279 3
2000.222	2	47020.01	002	72004 J 142712 J	2032.742	•	4009470	.004	03304 3 — 132277 3
2006.293	3	49827.04	003	84544° 4 — 134371 5	2054.702	20	48653.27	002	32387 2 — 81040° 3
2007.259	5h	49803.07	.002	85308° 1 — 135112 2	2055.096	5	48643.95	003	83584° 3 — 132228 2
2009.070	5	49758.18	004	85683° 1 — 135441 2	2055.355	100	48637.82	.005	43461 3 — 92099° 2
2009.219	1	49754.49	009	93642° 2 — 143396 3	2055.531	20	48633.66	.000	97709° 5 — 146342 5
2010.226	3	49729.57	003	88067 2 — 137796° 3	2056.331	1	48614.74	002	94098° 4 — 142712 5
2011.552	50	49696.79	.003	32843 2 — 82540° 2	2056.470	3	48611.45	002	47978 2 — 96589° 2
2011.633	100	49694.79	.002	42404 1 — 92099° 2	2056.647	15	48607.27	.002	84544° 4 — 133151 3
2011.894	1 5	49688.35	004	82540° 2 — 132228 2	2057.885	20	48578.03	006	42404 1 — 90982° 2
2012.078 2014.713	10	49683.80 49618.83	.000 100.	46601 4 — 96285° 5 103485 4 — 153104° 3	2058.289 2058.745	3 20	48568.50 48557.74	003 003	97709° 5 — 146277 6 33452 3 — 82009° 4
2014.713	10	47010.03	.003	96285° 5 — 145904 5	2036.743	20	46337.74	003	33432 3 — 82009 4
				111701	2059.597	50	48537.66	.005	43561 3 — 92099° 2
2015.035	10	49610.90	.001	93102° 4 — 142712 5	2060.078	5	48526.33	.001	51425 3 — 99952° 2
			.004	32398 4 — 82009° 4	2061.254	5	48498.64	003	96285° 5 — 144783 6
2015.902	10	49589.57	.004	50362 1 — 99952° 2	2062.499	1	48469.37	.001	51482 2 — 99952° 2
2016.381	20	49577.79	003	42521 2 — 92099° 2	2062.862	5	48460.84	003	42521 2 90982° 2
2016.807	5	49567.32	001	83584° 3 — 133151 3	2063.179	10	48453.40	004	32587 3 — 81040° 3
2017.231	1	49556.91	002	46299 3 — 95856° 3	2064.458	15	48423.38	.000	54853 5 — 103276° 4
2017.905	3	49540.35	004	43561 3 — 93102° 4	2065.492	1	48399.15	.006	85896° 4 — 134295 3
2018.885	3	49516.31	004	93306° 6 — 142822 6	2066.697	3	48370.93	002	96285° 5 — 144656 4
2019.591	1	49499.00	003	86892° 5 — 136391 5	2066.787	1	48368.82	.005	86892° 5 — 135261 4
2020.621	8	49473.78	005	49088 2 — 98562° 3	2067.534	1	48351.35	.001	93642° 2 — 141993 3
2021.091	20	49462.27	.001	44655 4 — 94117° 3	2067.727	1	48346.84	001	82540° 2 — 130886 1
2021.882	1	49442.92	.002	44655 4 — 94098° 4	2068.493	8	48328.94	007	83584° 3 — 131913 2
2022.259	200	49433.71	.003	42665 2 — 92099° 2	2069.009	15	48316.89	003	42665 2 — 90982° 2
2022.716	10	49422.54	00 l	32587 3 — 82009° 4	2072.785	10	48228.88	.001	44655 4 92884° 5
2023.025	100	49414.99	.003	35129 5 — 84544° 4	2073.479	100	48212.74	.008	43461 3 — 91674° 2
2023.423	1	49405.27	.002	94424° 7 — 143829 6	2074.135	5	48197.49	004	32843 2 — 81040° 3
2024.888	1	49369.54	.002	96907° 6 — 146277 6	2074.238	10	48195.10	.004	97709° 5 — 145904 5
2025.060	1	49365.34	.001	85896° 4 — 135261 4	2074.829	3	48181.37	004	42404 1 - 90586° 2
2025.253	5	49360.64	.001	82540° 2 — 131900 1	2075.429	15	48167.44	002	49541 4 — 97709° 5
2025.316	5	49359.10	.002	34225 4 — 83584° 3					
		100		1/0/4 4	2075.717	1	48160.76	002	52697 4 — 100858° 4
2026.788	10	49323.26	.001	46962 5 — 96285° 5	2077.362	2	48122.63	003	89482 3 — 137605° 4
2027.806	1	49298.50	.001	94098° 4 — 143396 3	2077.785	3	48112.83	002	43561 3 — 91674° 2
2027.866	5	49297.04	002	43461 3 — 92758° 3	2078.200	50	48103.23	.004	44655 4 — 92758° 3
2028.984	20	49269.88	002	42404 1 — 91674° 2	2078.806	5	48089.21	002	82540° 2 — 130629 1
2029.603	20	49254.86	.000	46601 4 95856° 3	2079.413	3	48075.17	001	46601 4 — 94676° 3
2030.204	15	49240.28	.000	95856° 3 — 145096 4	2050	40	40.055	.007	88499° 3 — 136574 4
2031.997	10	49196.84	.000	43561 3 — 92758° 3	2079.500	10	48073.16	.000	58730 4 — 106803° 3
2033.276	1	49165.90	004	94955° 4 — 144121 5	2079.783	20	48066.62	.000	42521 2 — 90588° 3
2033.600	2	49158.06	004	97184° 4 — 146342 5	2079.889	10	48064.17	.000	42521 2 — 90586° 2
2033.825	30	49152.63	.004	42521 2 — 91674° 2	I				

Table 3. Classified lines of Mo III—Continued

2001.879   300	Wavelength (Å)	Int.ª	Wavenumber (cm <sup>-1</sup> )	O-C (Å)	Classification  Level $J$ Level $J$	Wavelength (Å)	Int.ª	Wavenumber (cm <sup>-1</sup> )	O-C (Å)	Classification Level $J$ Level $J$
2862.78				<u> </u>						
2024-0692 1 4798-169										
2984.460										
2084.460 1 4798.878										
2014.405 1 4795.45 .006 3298 4 - 80354* 3   2125.270 1 4703.76 .004 4798 2 - 9030* 3   2015.088   10 4794.43										
2084.588										
2985.588   10						1				
2985.588 5					1					
2885.886										
2086.028								46947.09		
2086.699 5 47897.600 02 42665 2 90586° 2 2 2131.077 5 46908.82 2 -0.04 32587 3 - 78497* 2087.144 3 4787.12 .000 42494 1 - 90301° 1 2131.502 1 46908.48 -0.04 83129° 2 - 132281 2087.614 3 47876.09 -0.02 96907 6 -14783 6 2 2131.502 1 46938.48 -0.04 83129° 2 - 132281 2088.566 5 47876.09 -0.02 96907 6 -14783 6 2 2132.901 2088.566 5 4785.56 -0.03 4873 1 - 196589° 2 2 2132.901 2090.263 10 47825.66 -0.03 82547 2 - 130365 3 2135.207 2090.263 10 47825.66 -0.03 82547 2 - 130365 3 2135.207 2090.264 10 4788.00 -0.01 46299 3 - 949187 3 2135.905 1 46454.74 .000 72356 2 - 112066* 2090.597 5 47818.02 -0.01 46299 3 - 949187 3 2135.905 1 46473.3  0.00 44691.4 3 - 90255* 2091.442 10 47788.70 -0.01 46299 3 - 949187 3 2135.905 1 46773.3  0.00 43461 3 - 90255* 2091.442 10 47784.49 .0.01 34225 4 - 32090* 2092.201 3 47764.0  .0.02 38384 3 - 131379 2 21317.14 1 46777.33 0.01 46908.2 - 978135* 2092.201 3 47764.0  .0.05 38730 4 - 106611* 4 2135.505 1 47764.0  .0.05 38730 4 - 106611* 4 2135.505 1 47764.0  .0.05 38730 4 - 106611* 4 2135.505 1 47764.0  .0.05 38730 4 - 106611* 4 2135.505 1 47764.0  .0.05 38730 4 - 106611* 4 2135.505 1 47764.0  .0.05 38730 4 - 106611* 4 2135.505 1 47764.0  .0.05 38730 4 - 106611* 4 2135.505 1 47764.0  .0.05 38730 4 - 106611* 4 2135.505 1 47764.0  .0.05 38730 4 - 106611* 4 2135.505 1 47764.0  .0.05 38730 4 - 106611* 4 2145.505 1 47764.0  .0.05 38730 4 - 106611* 4 2145.505 1 47764.0  .0.05 38730 4 - 106611* 4 2145.505 1 47764.0  .0.05 38730 4 - 106611* 4 2145.505 1 46665.21  .0.05 38730 4 - 106611* 4 2145.505 1 46665.21  .0.05 38730 4 - 106611* 4 2145.505 1 46665.21  .0.05 38730 4 - 106611* 4 2145.505 1 46665.21  .0.00 3248 1 - 79818* 2009.202.202 5 47764.200  .0.01 34258 2 - 90888* 3 21040.9 3 14465 4 - 9108* 2009.3389 1 0 47764.0  .0.01 34258 2 - 90888* 3 21040.9 3 14465 4 - 9108* 2009.3389 1 0 47764.0  .0.02 34968 2 - 90888* 3 2144.0 3 1 0 46664.0  .0.00 3248 1 - 90888* 2 - 90888* 3 2144.0 3 1 0 46664.0  .0.00 3248 1 - 90888* 2 - 90888* 3 2144.0 3 1 0 46664.0  .0.00 3248 1 - 90888* 2 - 90888* 3 2 - 90888*	2085.886	1	47926.00	005	43461 3 — 91387° 4	2130.362	3	46925.56	002	56741 2 — 103667° 3
2086.691 5 47969.76 0002 58893 3 — 106803* 3 2131.420 50 46902.27 —0.01 33452 3 — 80334* 20207.975 10 47878.06 —0.04 47978 2 — 93856* 3 1 2132.078 51 46887.80 —0.04 89503* 4 — 136391 20208.8661 5 47876.06 —0.02 46907 6 — 14478.8 6 2132.078 51 46887.80 —0.04 89503* 4 — 136391 20208.8661 5 47876.06 —0.02 46907 6 — 14478.8 6 2132.078 51 46887.80 —0.04 89503* 4 — 136391 20208.8661 5 47855.48 —0.03 48734 1 — 96589* 2 2133.071 200 46856.97 —0.01 50318 5 — 97184* 20200.666 5 47850.30 —0.07 51482 2 — 99313* 1 2133.810 50 46480.28 —0.02 4629 3 — 91182* 20200.666 5 47850.30 —0.07 51482 2 — 99313* 1 2133.810 50 46480.75 —0.02 4629 3 — 91182* 20200.667 —0.06 86807* 1 — 135598 0 20200.67 —0.06 86807* 1 — 135598 0 20200.67 —0.06 86807* 1 — 135598 0 20200.67 —0.06 86807* 3 — 14666 4 2 — 1373.10 80 46773.03 —0.00 50362 1 — 97182* 20201.61 1 47798.67 —0.01 46629 3 — 9408* 4 21373.50 8 — 46767.78 —0.03 53407 0 — 100184* 20201.61 1 47794.61 —0.02 83584* 3 — 135995 2020.21 5 47781.30 —0.05 8370 4 — 105811* 4 2139.356 10 46762.49 —0.06 88499* 3 — 135261 20202.66 100 47784.49 —0.01 34225 4 — 82099* 4 2139.756 10 46762.49 —0.06 88499* 3 — 135261 20202.66 100 47784.49 —0.01 34225 4 — 82099* 4 2139.756 10 46762.39 —0.04 4665 4 — 91887* 20202.210 5 47781.60 —0.05 8570 4 — 106811* 4 2139.356 10 46762.39 —0.07 48655 4 — 91887* 20202.226 1 47769.26 —0.02 56741 2 — 106811* 2 2140.734 1 10 46664.07 —0.07 32843 2 — 79487* 20202.226 1 47769.69 —0.04 42088 2 — 96838* 3 — 22142.249 300 46663.21 —0.03 3422 2 — 79487* 20202.226 1 47769.69 —0.04 42086 5 — 96838* 3 — 22142.249 300 46663.21 —0.03 3422 2 — 79487* 20202.226 1 47769.69 —0.04 42082.5 — 106803* 3 — 22142.249 30 46663.21 —0.03 3287 2 — 79487* 20202.226 1 47769.69 —0.04 42082.5 — 106803* 3 — 106811* 4 2143.233 = 0.04 46664.07 —0.05 3284 3 — 106811* 4 2143.233 = 0.04 46664.07 —0.07 32843 2 — 79487* 20202.226 1 47769.26 —0.00 4798.82 2 — 106803* 3 — 106811* 4 2143.233 = 0.04 46664.07 —0.07 32843 2 — 79487* 20202.226 1 47769.26 —0.00 4798.82 3 — 106803* 3 — 106811* 3 — 106811* 3 — 106811* 3 —	2086.028				•	1				
2087.144 3 4787.12 000 42404 1 - 90.001 1 0 4787.80 - 0.04 83329′ 2 - 132228 2 0 2088.60 5 4785.64 - 0.04 8786.00 4878.8 - 0.04 85320′ 2 - 132281 2 0 2 0 2 0 2 0 2 0 9 0 0 0 1 4783.8 0 2 0 0 1 0 4880.8 - 0.01 3287 3 - 79467′ 2 0 2 0 0 0 0 0 1 4782.6 0 0 0 4782.6 0 - 0.03 8287 3 - 0 1 0 4782.6 0 - 0.03 8287 3 - 0 1 0 4880.8 - 0.01 3287 3 - 79467′ 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0										
2087.075 10 47878.060.04 4978 2 - 93856° 3										
2088.606   5						1				
2008.860 50 4785.363 — 0.03 48734   - 96589° 2		_	47878.06		,	2132.078		46887.80		89503° 4 — 136391 5
2990,263 10	2088.061	5	47876.09	002	96907° 6 — 144783 6	2132.406	10	46880.58	<b>001</b>	32587 3 — 79467° 2
2090.263 10 4782.566008 82540° 213350° 3	2088.960	50	47855.48	.003	48734 l — 96589° 2	2133.071	200	46865.97	001	50318 5 — 97184° 4
2000.597   5	2090.060	5	47830.30	007	51482 2 — 99313° 1	2133.810	50	46849.74	.000	72356 2 — 119206° 1
2090.597 5 47818.02 -0.01 46299 3 - 941177 3 2137.114 1 46777.32 -0.03 53407 0 - 100184* 2091.442 10 47798.70 -0.001 46299 3 - 941177 3 2137.114 1 46777.32 -0.03 53407 0 - 100184* 2091.621 1 47794.61 0.02 83584* 3 - 131379 2 2137.550 30 46767.30 -0.01 50362 1 - 97713* 2090.611 3 4779.47 -0.001 84544* 4 - 132337 3 2137.550 30 46767.30 -0.00 84999 3 - 135261 2090.04 100 47784.49 0.01 34225 4 - 82009* 4 2139.176 10 46732.24 -0.001 44655 4 - 91387* 2090.204 100 47784.99 0.01 34225 4 - 82009* 4 2139.176 10 46732.24 -0.001 44655 4 - 91387* 2092.201 5 47781.36 0.05 58730 4 - 100611* 4 2 140.963 15 0 46693.23 0.00 4784.49 0.00 58730 4 - 100611* 4 2 140.963 15 0 46693.23 0.00 47978 2 - 94676* 2092.826 1 4776.09 0.00 1 32287 3 - 80334* 3 2 140.963 15 0 46693.23 0.01 47978 2 - 94676* 2099.385 5 47744.08 -0.02 990.99 2 - 106803* 3 2093.835 5 47744.08 -0.02 42665 2 - 90301* 1 244.0963 15 0 46663.21 0.00 32835 5 - 142950 2099.375 10 47618.10 0.00 1 33398 4 - 80005* 4 2143.253 200 46643.35 0.00 32835 2 - 102950.99 10 47768.10 0.00 1 32383 2 - 906825* 5 15 4768.09 0.00 32484 3 - 907825* 1 446656 0 0.00 32452 3 - 81040* 3 2144.652 1 46662.51 0.00 32835 2 - 79467* 2100.685 100 4758.84 1 0.00 33452 3 - 81040* 3 2144.652 1 46662.93 0.00 32843 2 - 79608* 2100.685 100 47512.15 - 0.00 48601 4 - 94117* 3 2144.526 10 4694.66 - 0.00 32843 2 - 80354* 3 2144.524 2 0 47508.16 0.00 32843 2 - 80354* 3 2144.524 2 0 47508.16 0.00 32843 2 - 80354* 3 2144.525 1 46662.93 0.00 3248 1 - 79013* 2100.4908 1 4751.23 0.00 43661 3 - 90082* 2 2145.749 50 46589.10 0.00 32843 2 - 79608* 2 2145.464 2 0 47508.60 0.01 43661 3 - 90082* 2 2145.749 50 46590.00 3248 1 - 79013* 2100.4908 1 4751.23 0.00 43661 4 - 94098* 4 2146.993 0 46590.00 3248 1 - 79013* 2100.4908 1 4751.23 0.00 43661 4 - 94098* 4 2146.993 0 46661.4 - 94098* 4 2146.993 0 46691.3 0 0 44660.00 32843 2 - 79638* 3 2150.00 4 46660.00 3248 1 - 79013* 2100.4908 1 4751.23 0.00 4908 2 - 80055* 2 2150.00 4 6660.60 0 0 3248 1 - 79013* 2150.00 0 46660.60 0 0 3248 1 - 79013* 2150.00 0 46660.60 0 0 3248 1 - 7	2090.263	10	47825.66	008	82540° 2 — 130365 3	2135.279	15	46817.51	002	48734 1 — 95551° 2
2090.9597 5 47818.02 -0.01 46299 3 - 94117 3 - 2136.378 50 46793.43 .0.00 41461 3 - 90255* 2091.621 1 47794.61 .0.02 49683* 3 - 144656 4 2137.510 80 46773.03 .0.01 50362 1 - 97135* 2091.621 1 47794.61 .0.02 83384* 3 - 11379 2 2137.510 80 46767.78 .0.03 49088 2 - 95855* 2091.621 1 47794.61 .0.02 83384* 3 - 131379 2 2137.592 1 4676.249 .0.06 84999* 3 - 152.61 2091.671 3 47794.49 .0.01 84544* 4 - 132337 3 2138.650 100 46743.73 .0.00 49541 4 - 96285* 2092.046 100 47784.49 .0.01 32387 3 - 80354* 3 2139.766 10 4673.24 .0.01 44655 4 - 91387* 2092.051 5 47781.36 .0.05 58730 4 - 106511* 4 2 2139.536 50 46724.37 .0.00 72481 1 - 119206* 2092.731 3 47769.26 .0.02 56741 2 - 106511* 2 2140.734 15 4669.32 .0.01 47978 2 - 94675* 2092.856 1 47749.69 .0.04 49088 2 - 96838* 3 2140.963 150 46693.23 .0.02 43561 3 - 90255* 2093.835 5 47744.08 .0.02 59059 2 - 106603* 3 2093.75 10 4764.90 .0.08 49541 4 - 97184* 4 2139.353 200 46664.07 .0.02 77557 2 - 124221* 2098.852 5 4766.09 .0.02 49665 2 - 90301* 1 2144.026 50 4666.23 .0.00 32843 2 - 79508* 2093.755 10 4764.80 .0.00 96285* 5 - 143829 6 2144.026 50 4666.23 .0.00 32843 2 - 79467* 2100.685 100 4758.41 .0.02 33452 3 - 81040* 3 2144.652 5 1 4661.23 .0.00 32843 2 - 79467* 2103.667 5 4754.01 .0.00 96285* 5 - 143829 6 2146.592 1 46612.3 .0.00 32843 2 - 79467* 2103.677 5 4754.01 .0.00 96285* 5 - 143829 6 2146.592 1 46612.3 .0.00 32843 2 - 79467* 2104.543 20 47508.16 .0.03 3287 3 - 80055* 4 2144.504 200 46595.29 .0.00 32418 1 - 79013* 2104.098 1 4751.23 .0.01 43661 3 - 90982* 2 2145.749 50 4689.10 .0.00 32387 2 - 79101* 2104.34 20 47490.60 .0.03 46601 4 - 94107* 3 2144.62 20 4669.20 .0.03 3287 2 - 79101* 2104.34 20 47490.60 .0.03 46601 4 - 94107* 3 2144.692 30 4656.21 .0.00 32843 2 - 79467* 2104.546 20 47490.60 .0.03 46601 4 - 9408* 4 2 1245.50 1 46619.30 .0.00 5318 5 - 96907* 2103.889 50 4751.595 .0.00 49541 4 - 97184* 4 14404 .0.00 44664.40 .0.00 44664.40 .0.00 44664.40 .0.00 44664.40 .0.00 44664.40 .0.00 44664.40 .0.00 44664.40 .0.00 44664.40 .0.00 44664.40 .0.00 44664.40 .0.00 44664.40 .				.003	43561 3 — 91387° 4	2135.965	100	46802.48	002	46299 3 - 93102° 4
2090.597 5 47818.02001 46299 3				.006	85683° 1 — 133508 0	0124.250		1/502.42	000	17.441 7 000559 1
2091.421	2020 50=	_	15010.00	204	46000 1 044150 0					
2091.422 10 47798.70001 46299 3 - 94098° 4 2137.550 30 46767.78003 49088 2 - 95856° 2091.621 1 47794.61002 83584° 3 - 131379 2 2137.792 1 46762.79006 88499° 3 - 135261 2091.671 3 47793.47001 8454° 4 -1 12337 3 2138.650 100 46743.73001 49541 4 - 96283° 2092.064 100 47784.49001 34225 4 - 82009° 4 2139.176 10 46732.24001 44655 4 - 91387° 2092.731 3 47769.26002 56741 2 - 104511° 2 2140.734 15 46698.23001 4778 2 - 94676 2092.826 1 47767.09001 32587 3 - 80354° 3 2140.963 150 46663.21003 45561 3 - 90255° 2093.835 5 47744.08002 59059 2 - 106803° 3 2140.963 150 46663.21003 96285° 5 - 142950 2098.826 50 4764.90008 49541 4 - 97184° 4 2143.233 200 46664.07002 77557 2 - 124221° 2099.375 10 47618.10001 38293 8 - 80095° 4 2143.233 200 46664.33001 33452 3 - 80095° 4 2144.026 50 46626.53000 32347 2 - 79013° 2103.889 50 4754.01002 34565 3 - 99082° 2 2 2145.749 50 46664.64000 32343 2 - 79640° 2103.889 50 4751.59 5002 46601 4 - 94117° 3 2145.69	2090.597	5	47818.02							
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2110.321       10       47371.14      002       42404       1      89775° 0       2151.752       1       46459.14      005       46299       3      92758°         2111.580       100       47342.90       .002       46299       3      93642°       2       2153.277       50       46426.24       .003       50481       6      96907°         2113.644       200       47296.68       .000       49541       4      96838° 3       2       2154.063       10       46499.30      003       47978       2      94387°         2113.872       8       47291.58       .001       72187       3      119479°       3       2154.063       10       46499.30      003       47978       2      94387°         2113.896       8bi       47291.04      010       88592° 2      135882       3       2155.475       1       46378.90       .002       44655       4       91050°         2120.616       20       47141.20       .000       52811       1      99952°       2       2156.364       1       46359.78      004       96838°       3       143198         2121.260       3       47126.	2109.470	50	47390.25	.000	50318 5 — 97709° 5	2151.308	1	46468.72	.000	97184° 4 — 143653 5
2111.580	2109.590	1	47387.56	.004	97709° 5 — 145096 4	2151.568	1	46463.11	002	49088 2 — 95551° 2
2113.644 200 47296.68 .000 49541 4 — 96838° 3 2113.872 8 47291.58 .001 72187 3 — 119479° 3 2113.896 8bi 47291.04 —.010 88592° 2 — 135882 3 2116.743 200 47227.44 .001 50481 6 — 97709° 5 2120.616 20 47141.20 .000 52811 1 — 99952° 2 2120.837 30 47136.28 —.006 46962 5 — 94098° 4 2121.603 3 47126.89 —.002 43461 3 — 90588° 3 2155.475 1 46378.90 .007 89503° 4 — 135882 2155.475 1 46378.90 .007 89503° 4 — 135882 2155.475 1 46378.90 .007 89503° 4 — 135882 2156.364 1 46359.78 —.004 96838° 3 — 143198 2120.837 30 47136.28 —.006 46962 5 — 94098° 4 2121.260 3 47126.89 —.002 43461 3 — 90588° 3 2157.098 100 46344.01 —.001 44655 4 — 91006° 2121.372 8 47124.40 —.001 43461 3 — 90586° 2 2121.431 10 47123.09 —.001 72356 2 — 119479° 3 2121.528 20 47120.93 —.003 32387 2 — 79508° 3 2159.960 10b1 46282.61 —.001 46601 4 — 92884°	2110.321	10	47371.14	002	42404 1 — 89775° 0	2151.752	1	46459.14	005	46299 3 — 92758° 3
2113.872 8 47291.58 .001 72187 3 — 119479° 3 2154.728 30 46394.98 .002 44655 4 — 91050° 2113.896 8bi 47291.04 .001 88592° 2 — 135882 3 2155.706 5 46373.93 .003 50362 1 — 96736° 2120.616 20 47141.20 .000 52811 1 — 99952° 2 2156.364 1 46359.78004 96838° 3 — 143198 2120.837 30 47136.28006 46962 5 — 94098° 4 2156.743 200 46351.64001 44655 4 — 91006° 2121.260 3 47126.89002 43461 3 — 90586° 2 2157.098 100 46344.01001 46962 5 — 93306° 2121.372 8 47124.40001 43461 3 — 90586° 2 2158.463 80 46314.70003 49541 4 — 95856° 2121.431 10 47123.09001 72356 2 — 119479° 3 2159.960 10b1 46282.61001 46601 4 — 92884°	2111.580	100	47342.90	.002	46299 3 — 93642° 2	2153.277	50	46426.24	.003	50481 6 — 96907° 6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2113.644	200	47296.68	.000	49541 4 96838° 3	2154062	10	46400.70	003	47070 3 043078 3
2113.896       8b1       47291.04      010       88592° 2       - 135882       3       2155.475       1       46378.90       .007       89503° 4       - 135882         2116.743       200       47227.44       .001       50481       6       97709° 5       2155.706       5       46373.93      003       50362       1       96736°         2120.616       20       47141.20       .000       52811       1       99952° 2       2156.364       1       46359.78      004       96838° 3       143198         2121.260       3       47126.89      002       43461       3       90588° 3       2157.098       100       46344.01      001       46962       5       93306°         2121.372       8       47124.40      001       43461       3       90586° 2       2158.463       80       46314.70       .003       49541       4       95856°         2121.431       10       47123.09      001       72356       2       119479° 3       2159.635       5       46289.57       .001       89689° 5       135979         2121.528       20       47120.93      003       32387       2       79508° 3       2159.960	2112 072	0	47201.50	001	79107 7 1104700 3	i .				
2116.743       200       47227.44       .001       50481       6 — 97709° 5       2155.706       5       46373.93      003       50362       1 — 96736°         2120.616       20       47141.20       .000       52811       1 — 99952°       2       2156.364       1       46359.78      004       96838°       3 — 143198         2121.260       3       47126.89      002       43461       3 — 90588°       3       2157.098       100       46344.01      001       44655       4 — 91006°         2121.372       8       47124.40      001       43461       3 — 90586°       2       2158.463       80       46314.70       .003       49541       4 — 95856°         2121.431       10       47123.09      001       72356       2 — 119479°       3       2159.960       10b1       46282.61      001       46601       4 — 92884°						1				
2120.616       20       47141.20       .000       52811       1       99952° 2       2       2156.364       1       46359.78      004       96838° 3       143198         2120.837       30       47136.28      006       46962       5      94098° 4       2156.743       200       46351.64      001       44655       4       91006°         2121.372       8       47124.40      001       43461       3      90586° 2       2158.463       80       46314.70       .003       49541       4      95856°         2121.431       10       47123.09      001       72356       2       119479° 3       2159.635       5       46289.57       .001       89689° 5      135979         2121.528       20       47120.93      003       32387       2       79508° 3       2159.960       10b1       46282.61      001       46601       4       92884°										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
2121.260     3     47126.89    002     43461     3     - 90588° 3     2157.098     100     46344.01    001     46962     5     - 93306°       2121.372     8     47124.40    001     43461     3     - 90586° 2     2158.463     80     46314.70     .003     49541     4     - 95856°       2121.431     10     47123.09    001     72356     2     - 119479° 3     2159.635     5     46289.57     .001     89689° 5     - 135979       2121.528     20     47120.93    003     32387     2     - 79508° 3     2159.960     10b1     46282.61    001     46601     4     - 92884°										
2121.372     8     47124.40    001     43461     3     - 90586° 2     2158.463     80     46314.70     .003     49541     4     - 95856°       2121.431     10     47123.09    001     72356     2     - 119479°     3       2121.528     20     47120.93    003     32387     2     - 79508°     3       2159.635     5     46282.61    001     46601     4     - 92884°										
2121.431 10 47123.09001 72356 2 - 119479° 3 2159.635 5 46289.57 .001 89689° 5 - 135979 2121.528 20 47120.93003 32387 2 - 79508° 3 2159.960 10b1 46282.61001 46601 4 - 92884°	2121.260									46962 5 — 93306° 6
2121.528 20 47120.93003 32387 2 - 79508° 3 2159.960 10b1 46282.61001 46601 4 - 92884°	2121.372									49541 4 — 95856° 3
	2121.431	10	47123.09			2159.635	5	46289.57		89689° 5 — 135979 6
2122.548 1 47098.29004 32398 4 - 79497° 4	2121.528		47120.93			2159.960	1051	46282.61	001	46601 4 — 92884° 5
	2122.548	1	47098.29	004	32398 4 — 79497° 4					

Table 3. Classified lines of Mo III—Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.a	Wavenumber	O-C	Classificati	
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J	Level J
2159.986	100Ы	46282.05	003	48734 1 — 95016° 1	2194.302	20	45558.34	001	48734 1 — 9	
2160.781	10	46265.03	.000	42404 1 — 88669° 0	2195.263	300	45538.40	.000	43561 3 — 8	39100° 4
2160.861	80	46263.31	001	72187 3 — 118451° 2	2196.034	5	45522.41	.006	33155 0 — 7	
2161.051	300	46259.25	.000	32418 1 — 78677° 1	2199.457	50	45451.57	003	59059 2 — 10	
2162.545	20	46227.29	.001	50362 1 — 96589° 2	2200.669	200	45426.54	003	42404 1 — 8	
2164.413	50	46187.40	002	42404 1 — 88592° 2	2201.352	40	45412.45	001	51425 3 — 9	
2165.197	400	46170.68	.001	32843 2 — 79013° 2	2202.697	3	45384.72	003	91006° 5 — 13	
2165.346	10	46167.50	.002	89689° 5 — 135857 4	2203.171	50	45374.96	.000	46299 3 — 9	
2165.637	1	46161.30	.004	89100° 4 — 135261 4	2204.813	1	45341.17	.000	87810° 3 — 13	
2165.760	20	46158.68	004	32519 1 — <b>7</b> 8677° 1	2206.079	300	45315.15	<b>001</b>	32843 2 —	78158° 3
2166.184	200	46149.64	.002	32418 1 — 78568° 0	2206.360	5	45309.38	001	42521 2 — 8	
2166.643	80	46139.87	.002	46962 5 — 93102° 4	2206.870	200	45298.91	.003		94387° 2
2166.679	20	46139.10	.000	47978 2 — 94117° 3	2207.027	1	45295.69	002	89503° 4 — 13	
2167.146	300	46129.16	002	34225 4 — 80354° 3	2207.362	400	45288.82	.000	42521 2 — 8	
2167.676	300	46117.88	004	34225 4 — 80343° 5	2207.646	100	45282.99	002	34225 4 — 7	
2168.306	200	46104.48	.000	32843 2 — 78947° 1	2208.194	300	45271.75	002		79497° 4
2168.764	50	46094.75	.000	72356 2 — 118451° 2	2209.082	200	45253.56	.001	51482 2 — 9	
2169.130	1	46086.97	.004	85308° 1 — 131396 1	2209.745	10	45239.98	001	88499° 3 — 13	
2169.919	50	46070.21	.002	85308° 1 — 131379 2 42521 2 — 88592° 2	2211.019	500	45213.92	009	35129 5 — 8	
			.001	42521 2 — 88592 2	2212.227	30	45189.23	001	50362 1 — 9	95551°2
2170.584	500	46056.10	.000	33452 3 — 79508° 3	2213.396	8	45165.37	.003		8 <b>7</b> 831° 1
2170.918	8	46049.02	.000	32519 1 — 78568° 0	2213.461	100	45164.04	003		96589°2
2171.116	200	46044.82	.002	33452 3 — 79497° 4	2213.602	1	45161.16	.002	89503° 4 — 1	
2171.237	10	46042.25	001	43461 3 — 89503° 4	2213.872	1	45155.66	005	96838° 3 — 1	
2171.404	1	460 38.71	.005	96907° 6 — 142946 5	2214.401	500	45144.87	.001	42665 2	
2171.874	1	46028.75	001	54191 2 — 100219° 2	2214.883	3	45135.05	.000	49541 4 —	
2172.487	400	46015.76	003	33452 3 — 79467° 2	2215.533	200	45121.81	001	54191 2 — 9	
2172.981	15	46005.30	.001	54853 5 — 100858° 4	2216.612	200	45099.84	.001	72187 3 — 1	
2173.545 2174.100	30 100	45993.37 45981.63	.002 .001	54191 2 — 100184° 1 59059 2 — 105041° 1	2217.197 2218.146	200 400	45087.95 45068.66	001 004	46299 3 — 9 42404 1 — 9	9138 <b>7°</b> 4 87473°2
						_				
2174.301	50	45977.38	.000	42521 2 — 88499° 3	2218.369	5	45064.13	.003	88499° 3 — 1	
2174.680	10	45969.36	.001	72481 1 — 118451° 2	2219.677	10	45037.57	.001	43461 3 —	
2174.811	80	45966.60	002	50318 5 — 96285° 5	2219.823	100	45034.61	.001	44655 4 —	
2175.970	60	45942.11	001	43561 3 — 89503° 4	2220.105	20	45028.89	002	49088 2 — 52697 4 — 5	94117° 3
2176.399	2	45933.06	.005 .005	44655 4 — 90588° 3 49088 2 — 95016° 1	2220.978	200 5	45011.20	004 .004	91387° 4 — 1	
2176.663 2176.723	3	45927.49 45926.22	.003	42665 2 — 88592° 2	2221.334	,	45003.98	006	97709° 5 — 1	
2176.723	60	45922.00	.003	46962 5 — 92884° 5	2222.757	50	44975.17	002	48734 1 —	
2177.437	1	45911.17	001	86426° 2 — 132337 3	2222.737	10	44972.58	.001	91006° 5 — 1	
2177.700	30	45905.62	.000	53407 0 — 99313° 1	2222.949	1	44971.29	.002	88592° 2 — 1	
0150 202	400	45050.10	000	24225 4 000058 4	2222 221	200	44066.10	000	25120 5	000069
2179.383	400	45870.18	.002 003	34225 4 — 80095° 4 52697 4 — 98562° 3	2223.201 2223.928	300 20	44966.19 44951.49	002 001	35129 5 — 1 42521 2 — 1	
2179.654	100	45864.47 45858.22	003 .001		2223.928	200	44931.49	001	58730 4 — 1	
2179.951	3		.001	96838° 3 — 142696 4		400	44890.96	002	58730 4 — 1	
2181.073	100	45834.64	001	32843 2 — 78677° 1 42665 2 — 88499° 3	2226.927	400	44876.54	.002	36164 4 — 1	
2181.129	100 300	45833.46 45803.69	.003	50481 6 — 96285° 5	2227.643 2227.966	1	44870.03	004	42521 2 —	
2182.547	300		002	46299 3 — 92099° 2	2228.717	30	44854.91	.000	72481 I — 1	
2182.722 2184.303		45800.01 45766.97	002 001	46962 5 — 92728° 6	2220.717	30	44034.71	001	48854 0 —	
	500	45766.87 45758.70	.008	51425 3 — 97184° 4	2228.789	10	44853.46	.002	55366 1 — 1	
2184.693 2186.018	10 10	45730.96	.001	47978 2 — 93709° 1	2228.932	15	44850.59	002	91006° 5 — 1	
							44040			
2187.337	1	45703.39	.002	88592° 2 — 134295 3	2229.036	15	44848.50	.003	44655 4 —	
2188.537	1	45678.33	.009	87473° 2 — 133151 3	2229.741	1	44834.32	.005	98562° 3 — 1-	
2189.749	100	45653.05	006	46601 4 — 92254° 5	2230.545	200	44818.16	.001	55366 1 — 1	
2190.446	500	45638.53	.001	43461 3 — 89100° 4	2232.152	100	44785.89	.001	46601 4 —	
2190.956	5	45627.91	003	90255° 4 — 135882 3	2232.767	80	44773.56	.001	58893 3 — 10	
	200	45617.25	.002	58893 3 — 104511° 2	2233.910	50	44750.65	.003	46299 3 —	
2191.468										
2191.468 2192.316	3	45599.60	.008	44655 4 — 90255° 4	2235.139	20	44726.05	002	42665 2 —	
2191.468 2192.316 2192.875	3 20	45587.98	.001	49088 2 — 94676° 3	2235.723	3	44714.37	.001	32398 4 —	77113° 5
2191.468 2192.316	3									77113° 5 78158° 3

Table 3. Classified lines of Mo III—Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.ª	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J
2238.758	30	44653.76	001	50362 1 — 95016° 1	2276.942	30	43904.99	001	42521 2 — 86426°
2240.419	8	44620.65	.004	49088 2 — 93709° 1	2278.079	1	43883.08	.005	90301° 1 — 134185
241.065	50	44607.79	.000	59059 2 — 103667° 3	2278.544	2	43874.12	003	91387° 4 — 135261
242.171	100	44585.79	.000	55366 1 — 99952° 2	2280.117	10	43843.86	.004	44655 4 — 88499°
243.483	1	44559.72	.002	88592° 2 — 133151 3	2280.835	150	43830.06	002	43561 3 — 87391°
2243.643	100	44556.54	.002	49541 4 — 94098° 4	2280.987	50	43827.14	.003	58730 4 — 102557°
2243.784	5	44553.74	.002	49088 2 — 93642° 2	2282.782	2	43792.68	004	91006° 5 — 134799
2244.163	15	44546.22	.002	58730 4 — 103276° 4	2283.478	5	43779.33	.005	50318 5 — 94098°
2244.250	10	44544.49	002	90255° 4 — 134799 5	2284.433	100	43761.03	.000	42665 2 — 86426°
2245.306	1	44523.54	.003	90588° 3 — 135112 2	2286.316	1	43724.99	001	92254° 5 — 135979
2247.100	100	44488.00	.002	48734 1 — 93222° 1	2287.128	2	43709.47	.001	90586° 2 — 134295
2247.163	80	44486.75	.003	52697 4 — 97184° 4	2287.264	1	43706.87	.009	90588° 3 — 134295
2247.743	1	44475.28	.004	103276° 4 — 147752 5	2287.830	1	43696.06	.001	47978 2 — 91674°
2249.090	200	44448.64	.004	46601 4 — 91050° 3	2289.200	200	43669.91	002	49088 2 — 92758°
2249.283	15	44444.83	.003	44655 4 — 89100° 4	2289.516	1	43663.88	002	58893 3 — 102557°
2250.005	200	44430.57	001	51425 3 — 95856° 3	2290.065	200	43653.42	.003	46601 4 90255°
2250.268	100	44425.38	.001	46962 5 — 91387° 4	2292.101	2	43614.65	.006	91050° 3 — 134665
			.001	32418 1 — 76836° 2		3		.008	72187 3 — 115794°
2250.636	60	44418.11			2292.559		43605.93		
2251.041	10	44410.12	.002	58893 3 — 103303° 2	2293.532	50	43587.44	001	52697 4 — 96285°
			006	90255° 4 — 134665 3	2293.672	20	43584.78	.007	32387 2 — 75972°
2251.288	100	44405.25	.003	46601 4 — 91006° 5	2294.974	600	43560.05	.000	35129 5 — 78689°
2252.420	200	44382.94	001	58893 3 — 103276° 4	2295.310	50	43553.67	.000	32418 1 — 75972°
2252.894	50	44373.60	001	51482 2 — 95856° 3	2296.375	20	43533.48	002	51482 2 95016°
2253.195	300	44367.67	002	35129 5 — 79497° 4	2296.558	200	43530.01	003	51425 3 — 94955°
2235.175	500	11307.07	.006	48854 0 — 93222° 1	2298.243	200	43498.10	002	59059 2 — 102557°
2253.445	1	44362.75	003	103621° 5 — 147984 6	2299.300	50	43478.10	002 001	56741 2 — 100219°
									32519 1 — 75972°
2254.138	10	44349.11	004	43461 3 — 87810° 3	2300.629	3	43452.99	.001	
2255.389	30	44324.51	.001	52811 1 — 97135° 0	2301.171	20	43442.75	.000	56741 2 — 100184°
2257.202	200	44288.92	002	46299 3 — 90588° 3	2301.446	10	43437.56	001	72356 2 — 115794°
2257.332	100	44286.37	.003	46299 3 — 90586° 2				003	91674° 2 — 135112
2258.952	1	44254.61	.002	91006° 5 — 135261 4	2301.766	1	43431.53	001	98562° 3 — 141993
2259.218	20	44249.40	.002	32587 3 — 76836° 2	2302.502	8	43417.64	002	32398 4 — 75816°
2259.251	20	44248.75	.007	43561 3 — 87810° 3	2304.255	200	43384.62	002	33452 3 — 76836°
2259.477	30	44244.33	.002	59059 2 — 103303° 2	2305.278	50	43365.37	008	48734 1 92099°
2259.935	1	44235.36	002	89503° 4 — 133739 4	2306.257	50	43346.96	004	50362 1 — 93709°
2261.162	2	44211.36	005	91050° 3 — 135261 4	2306.493	200	43342.52	001	49541 4 — 92884°
		44179.01	.003				43329.06	001 001	53407 0 — 96736°
2262.818	1			36164 4 — 80343° 5	2307.210	10			
2264.070	1	44154.58	005	103276° 4 — 147431 4	2308.109	60	43312.18	.000	72481 1 — 115794°
2264.735	100	44141.62	007	72356 2 — 116497° 3	2309.823	100	43280.04	006	50362 <b>1</b> — 93642°
2264.798	50	44140.39	001	52697 4 — 96838° 3	2309.905	100	43278.51	006	42404 <b>1</b> — 85683°
2265.150	30	44133.53	.005	49088 2 — 93222° 1	2310.800	1	43261.75	006	87810° 3 — 131072
2265.543	20	44125.87	.001	51425 3 — 95551° 2	2311.381	20	43250.87	003	51425 3 — 94676°
2265.786	1	44121.14	003	47978 2 — 92099° 2	2311.682	1	43245.24	002	91050° 3 — 134295
2268.070	1	44076.72	006	90588° 3 — 134665 3	2312.539	10	43229.22	002 004	32587 3 — 75816°
								004 002	49541 4 — 92758°
2268.468	100	44068.98	003	51482 2 — 95551° 2	2313.194	1	43216.98		
2269.361	2	44051.64	.001	89100° 4 — 133151 3	2313.545	50	43210.42	003	56741 2 — 99952°
2269.715	300	44044.77	.001	46962 5 — 91006° 5	2313.718	1	43207.19	007	90301° 1 — 133508
2270.728	50	44025.13	001	50362 1 — 94387° 2	2313.868	50	43204.39	007	46299 3 — 89503°
2270.883	50	44022.12	001	42404 1 — 86426° 2	2314.428	100	43193.94	004	51482 2 — 94676°
2272.362	50	43993.47	.003	32843 2 — 76836° 2	2316.175	30	43161.36	005	42521 2 — 85683°
2272.703	20	43986.87	.000	46601 4 — 90588° 3	2316.327	5	43158.53	002	52697 4 — 95856°
2274.334	15b1	43955.33	.007	46299 3 — 90255° 4	2316.498	10	43155.34	.002	44655 4 — 87810°
2274.792	1501		.007	55366 ! — 99313° 1		3	43150.74	002	90588° 3 — 133739
		43946.48			2316.745				
2275.002	400	43942.42	.001	50481 6 — 94424° 7	2317.912	100	43129.02	.003	32843 2 — 75972°
2275.487	200	43933.06	001	34225 4 — 78158° 3	2320.100	50	43088.35	001	46601 4 — 89689°
2275.640	200	43930.11	.003	43461 3 — 87391° 3	2320.989	8	43071.85	001	47978 2 — 91050°
			002	50362 1 — 94292° I	2323.928	100	43017.38	002	42665 2 — 85683°
2275.883	10	43925.42	002	52811 1 — 96736° I	2325.552	100	42987.34	004	50318 5 — 93306°
2276.270	60	43917.95	.000	42404 1 — 86322° 0	2326.088	1	42977.44	002	90586° 2 — 133563
2276.603	10	43911.53	.001	43561 3 — 87473° 2	2326.226	5	42974.89	.003	90588° 3 — 133563
	10	TJ711.JJ	.001	-5501 5 - 67475 Z	4340,440		747/7.07	.005	,0500 5 . 155505

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.a	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J
2326.308	1	42973.37	005	92884° 5 — 135857 4	2377.137	300	42054.57	.000	54853 5 — 96907° (
2326.753	50	42965.15	.002	43461 3 — 86426° 2	2381.145	200	41983.79	.001	35129 5 — 77113° 5
2326.936	20	42961.78	.001	51425 3 — 94387° 2	2381.431	10	41978.75	.001	52697 4 — 94676° 3
2328.104	40	42940.22	.000	48734 1 — 91674° 2	2382.221	15	41964.83	.001	58893 3 — 100858° 4
2328.911	20	42925.35	004	42404 1 — 85329° 2	2382.408	50	41961.54	.002	49088 2 — 91050° 3
2330.016	10	42904.99	009	51482 2 — 94387° 2	2383.877	150	41935.68	.001	50318 5 — 92254° :
2330.055	30	42904.27	003	42404 1 — 85308° 1	2384.650	100	41922.09	.001	77557 2 — 119479° 3
2330.165	10	42902.25	.001	46601 4 — 89503° 4	2386.051	100	41897.47	.009	88067 2 — 129964° 3
2330.945	100	42887.89	.000	34225 4 — 77113° 5				.009	46601 4 — 88499° 3
2332.188	20	42865.04	.001	43561 3 — 86426° 2	2386.185	20	41895.12	.000	72187 3 — 114083° 2
2332.476	20	42859.74	.002	50362 1 — 93222° 1	2386.260	50	41893.80	.003	49088 2 — 90982° 2
2332.687	50	42855.87	007	54853 5 — 97709° 5	2386.969	500	41881.36	.004	32843 2 — 74724° 3
2334.398	20	42824.46	.001	50481 6 — 93306° 6	2387.709	1	41868.38	001	43461 3 — 85329° 2
2334.814	3	42816.83	.007	33155 0 — 75972° 1	2388.660	30	41851.72	003	48734 1 — 90586° 2
2335.194	5	42809.86	004	51482 2 — 94292° 1	2388.997	200	41845.81	.001	49541 4 — 91387° 4
2335.286	3	42808.18	001	42521 2 — 85329° 2	2390.444	100	41820.48	.000	56741 2 — 98562° 3
2336.439	50	42787.05	.003	42521 2 — 85308° 1	2390.948	50	41811.67	.002	42404 1 — 84216° (
			.004	88592° 2 — 131379 2	2393.176	50	41772.75	.009	50481 6 — 92254° 5
2336.646	20	42783.26	004	50318 5 — 93102° 4	2393.442	20	41768.10	.007	43561 3 — 85329° 2
2338.969	40	42740.77	002	52811 1 — 95551° 2	2393.604	3	41765.28	.002	94117° 3 — 135882
2339.205	3	42736.46	.002	44655 4 — 87391° 3	2395.227	20	41736.98	001	50362 1 92099° 2
2339.305	1	42734.64	008	89689° 5 — 132424 6	2395.824	50	41726.58	.000	72356 2 114083° 2
2339.680	30	42727.79	.001	46962 5 — 89689° 5	2399.242	40	41667.14	.003	58730 4 — 100397°
2340.499	20	42712.84	.000	49541 4 — 92254° 5	2399.354	100	41665.19	.001	54191 2 — 95856° 3
2341.660	50	42691.66	.001	51425 3 — 94117° 3	2399.756	30	41658.22	.003	72356 2 — 114014°
2342.720	10	42672.35	.000	51425 3 — 94098° 4	2402.041	5	41618.59	.005	94955° 4 — 136574
2343.168	80	42664.19	.001	42665 2 — 85329° 2	2402.603	80	41608.86	.003	53407 0 — 95016°
2344.102	5	42647.19	005	54191 2 — 96838° 3	2403.043	2	41601.24	001	72481 1 — 114083° 2
2344.327	50	42643.10	.004	42665 2 — 85308° 1	2403.627	200	41591.13	.000	34225 4 — 75816° 4
2344.788	50	42634.72	001	51482 2 — 94117° 3	2404.468	30	41576.58	.003	52811 1 — 94387° 2
2347.481	20	42585.81	.000	49088 2 — 91674° 2	2404.995	50	41567.47	.001	48734 1 — 90301° :
2348.292	1	42571.10	.001	56741 2 — 99313° 1				003	72481 1 — 114014°
2348.608	50	42565.38	100.	50318 5 — 92884° 5	2408.269	1	41510.97	.006	46299 3 — 87810°
20 101000			.007	92099° 2 — 134665 3	2408.410	20	41508.54	.005	49541 4 91050°
2349.732	3h	42545.02	002	92254° 5 — 134799 5	2408.684	100	41503.82	.002	58893 3 — 100397°
2349.911	100	42541.78	002	46962 5 — 89503° 4	2409.072	2h	41497.13	.008	49088 2 — 90586°
2355.845	1	42434.63	003	43461 3 — 85896° 4	2409.971	50	41481.65	004	52811 1 — 94292°
2357.204	20	42410.17	002	50318 5 — 92728° 6	2410.101	300	41479.42	.007	46962 5 — 88441°
2357.582	50	42403.37	002	72187 3 — 114591° 3	2410.342	1	41475.27	.004	103621° 5 — 145096
2357.634	15	42402.43	.007	50481 6 — 92884° 5	2410.676	5	41469.52	.001	93642° 2 — 135112
2357.844	40	42398.65	001	54191 2 — 96589° 2	2410.925	100	41465.24	001	49541 4 — 91006° :
2359.760	300	42364.23	.002	33452 3 — 75816° 4	2412.718	300	41434.43	.004	32418 1 — 73853°
2360.463	1	42351.62	.003	91387° 4 — 133739 4	2412.856	100	41432.06	001	54853 5 — 96285°
2361.260	10	42337.32	003	32387 2 — 74724° 3	2413.581	1	41419.62	.000	52697 4 — 94117°
		42334.47	003 002	43561 3 — 85896° 4	2413.381	100		.002	52697 4 — 94098° 4
2361.419	3						41400.27		
2361.590	5	42331.41	.001	54853 5 — 97184° 4	2418.342	1	41338.08	001	59059 2 — 100397° :
2362.042	1	42323.31	.003	47978 2 — 90301° 1	2418.587	50	41333.89	004	32519 1 — 73853° 3
2363.105	1	42304.27	006	106511° 4 — 148816 5	2418.657	20	41332.70	.001	51425 3 — 92758° 3
2363.766	30	42292.44	.002	46299 3 — 88592° 2	2419.872	80	41311.94	.001	50362 1 — 91674° 3
2365.696	2	42257.94	003	52697 4 — 94955° 4	2422.190	300	41272.41	.004	33452 3 — 74724°
2366.290	200	42247.33	.000	50481 6 — 92728° 6	2422.578	1	41265.80	.000	32587 3 — 73853° 3
2366.850	10	42237.34	.000	44655 4 — 86892° 5	2425.068	30	41223.43	001	55366 1 96589°
2367.884	1	42218.90	004	93222° 1 — 135441 2	2425.678	50	41213.07	.002	49088 2 90301°
2368.011	2	42216.63	001	51425 3 — 93642° 2	2425.919	5	41208.97	.006	4660I 4 — 87810°
2368.650	15	42205.24	.001	52811 1 — 95016° 1	2428.725	50	41161.37	002	47978 2 — 89139°
2368.963	70	42199.67	002	46299 3 — 88499° 3	2428.783	100	41160.39	001	59059 2 — 100219°
2370.026	100	42180.74	.001	64331 3 — 106511° 4	2430.875	1	41124.97	.005	59059 2 — 100184°
2371.205	30	42159.77	007	51482 2 — 93642° 2	2433.363	2	41082.92	002	43461 3 84544°
2372.468	15	42137.33	.001	32587 3 — 74724° 3	2434.208	50	41068.66	.001	50318 5 — 91387°
		42128.22	001	58730 4 — 100858° 4	2434.560	30	41062.72	002	42521 2 — 83584° 3
2372.981	150	72120.22	001	J073U 4 - 1000J0 4	2434.300			002	72321 Z - 03307 .

Table 3. Classified lines of Mo III—Continued

Wavelength	Int.ª	Wavenumber	O-C	Classification	Wavelength	Int.a	Wavenumber	O-C	Classific	ation
(Å)		$(cm^{-1})$	(Å)	Level $J$ Level $J$	(Å)		(cm <sup>-1</sup> )	(Å)	Level $J$	Level J
2434.816	1	41058.41	.002	58893 3 — 99952° 2	2519.782	1	39674.03	008	103276° 4 —	142950
2435.114	1	41053.38	002	92728° 6 — 133782 5	2521.319	3	39649.85	.000	55366 1 —	95016°
2435.507	5	41046.76	.002	49541 4 — 90588° 3	2522.943	20	39624.33	.004	51425 3	91050°
2435.821	100	41041.47	.000	48734 1 89775° 0	2524.711	200	39596.58	.002	46299 3 —	85896°
2437.695	300	41009.92	001	32843 2 — 73853° 2	2525.804	1	39579.45	006	92758° 3 —	132337
2439.311	80	40982.75	.000	43561 3 — 84544° 4	2526.573	50	39567.40	.002	51482 2 —	910 <i>5</i> 0°
2442.639	1	40926.92	.008	94955° 4 — 135882 3	2527.139	10	39558.54	003	49541 4 —	89100°
2443.125	30	40918.78	001	42665 2 — 83584° 3	2527.261	100	39556.63	.004	51425 3 —	90982°
2444.149	1 <b>h</b>	40901.64	002	94955° 4 — 135857 4				005	52697 4 —	92254°
2444.341	30	40898.42	002	52811 1 — 93709° 1	2529.718	2	39518.21	.000	54191 2 —	93 <b>7</b> 09°
2444.616	1	40893.82	001	77557 2 — 118451° 2	2530.668	30	39503.38	003	49088 2	88592°
2444.688	50	40892.62	.002	59059 2 — 99952° 2	2530.706	20	39502.78	001	59059 2	98562°
2445.126	15	40885.29	002	53407 0 — 94292° 1	2530.901	30	39499.74	001	51482 2	90982°
2448.351	60	40831.44	.001	52811 1 93642° 2	2531.214	3	39494.86	002	47978 2 —	87473°
2455.454	150	40713.34	.002	49541 4 — 90255° 4	2534.013	20	39451.24	.003	54191 2 —	93642°
2456.977	15	40688.10	002	50318 5 — 91006° 5	2536.633	10	39410.49	001	49088 2	88499°
2457.039	50	40687.07	002	35129 5 — 75816° 4	2539.174	30	39371.05	.002	50318 5 —	89689°
2457.854	70	40673.58	.004	51425 3 — 92099° 2	2541.418	8	39336,29	004	64331 3 —	
2461.094	2	40620.04	002	50362 1 — 90982° 2	2544.112	100	39294.64	002		85896°
2461.295	20	40616.72	003	51482 2 — 92099° 2	2545.772	2h	39269.02	.000	88067 2 —	
2461.485	10	40613.59	.000	47978 2 — 88592° 2	25 <b>4</b> 7.336	150	39244.91	.000	54853 5 —	94098°
2466.852	20	40525.24	.002	50481 6 — 91006° 5	2549.715	50	39208.30	001	50481 6 —	
2468.431	80	40499.31	.001	34225 4 — 74724° 3	2551.227	15	39185.06	002	50318 5 —	
2469.273	150	40485.51	001	54191 2 — 94676° 3	2552.694	20	39162.54	.001	51425 3 —	
2473.813	10	40411.21	.006	52811 1 — 93222° 1	2552.857	10	39160.04	.003	51425 3 —	
2474.163	50	40405.49	001	48734 1 — 89139° 1	2555.827	8	39114.54	.001	56741 2 —	
2474.250	200	40404.07	002	52697 4 — 93102° 4	2556.412	15	39105.59	.000	51482 2 —	
2474.448	60	40400.84	.006	33452 3 — 73853° 2	2556.578	30	39103.05	.005	51482 2 —	
2474.913	1	40393.25	002	92758° 3 — 133151 3	2556.985	5	39096.83	.002	48734 1 —	
2481.192	500	40291.04	.000	46601 4 — 86892° 5	2558.184	100	39078.50	.001	43461 3 —	
2483.806	1	40248.64	.000	51425 3 — 91674° 2	2560.406	1	39044.59	003	96838° 3 —	135882
2485.361	20	40223.46	003	50362 1 — 90586° 2	2561.299	10	39030.98	.009	54191 2	93222°
2487.031	50	40196.45	.000	54191 2 — 94387° 2	2561.340	1	39030.36	.003	46299 3	
2487.666	300	40186.19	.002	52697 4 — 92884° 5	2561.935	100	39021.29	004	55366 1 —	
2489.880	1	40150.46	.003	92884° 5 — 133034 4	2564.755	200	38978.39	001	43561 3 —	
2490.018	300	40148.23	.000	49541 4 — 89689° 5	2565.122	100	38972.81	001	64331 3 —	
2491.588	200	40122.94	002	43461 3 — 83584° 3				005	92099° 2 —	
2492.634	3	40106.10	.005	96285° 5 — 136391 5	2566.120	80	38957.66	008	49541 4 —	
2492.853	10	40102.58	005	54853 5 — 94955° 4	2566.919	3	38945.53	.002	64331 3 —	
2492.927	5	40101.39	.002	54191 2 — 94292° 1	2567.251	10	38940.50	.002	77557 2 —	
2493.237	50	40096.40	.003	56741 2 — 96838° 3	2567.676	20	38934.05	.003	46962 5 —	85896°
2495.464	15	40060.62	.001	52697 4 — 92758° 3	2567.992	100	38929.26	001	44655 4 —	
2496.057	200	40051.10	002	49088 2 — 89139° 1	2568.200	3	38926.11	.005	55366 1 —	
2497.827	300	40022.73	.002	43561 3 — 83584° 3	2572.170	3	38866.03	.007	91098 4 —	
2498.104	200	40018.29	.001	42521 2 — 82540° 2	2572.341	8	38863.45	.002	52811 1 —	
2499.585	30	39994.58	002	56741 2 96736° 1	2573.144	1	38851.32	001	96589° 2 —	
2501.606	100	39962.27	006	49541 4 — 89503° 4	2575.289	1	38818.96	001	51482 2 —	
2501.650	50	39961.57	.002	51425 3 — 91387° 4	2575.899	1	38809.77	.009	56741 2 —	
2503.050	2	39939.22	.002	50362 1 — 90301° 1	2578.062	50	38777.21	.001	50362 1 —	
2503.237	50	39936.23	001	50318 5 — 90255° 4	2580.610	1	38738.93	.003	48734 1 —	
2503.287	50	39935.44	002	48734 1 — 88669° 0	2581.751	2	38721.81	.008	49088 2	878 10°
2503.595	200	39930.52	001	46962 5 — 86892° 5	2583.911	15	38689.44	.006	52697 4 —	
2503.855	50	39926.38	003	54191 2 — 94117° 3	2584.385	3	38682.34	.009	97709° 5 —	
2504.298	3h	39919.32	.003	92254° 5 — 132173 4	2592.094	30	38567.31	.004	54191 2	
		39904.45		90982° 2 — 130886 1	2593.366	200	38548.39	004 008	43461 3 —	
2505.231	500		007 .002	90982 2 — 130886 1 44655 4 — 84544° 4		300		008 003	43461 3 — 42521 2 —	
2506.189	500	39889.20			2595.352	500	38518.90			
2507.121	100	39874.37	.000	42665 2 — 82540° 2	2507 120	200	20402 54	.003	93709° 1 —	
2508.165	100	39857.77	002	48734 1 — 88592° 2	2597.129	300	38492.54	.002	95016° 1 —	
2509.789	8	39831.99 39779.30	005 .001	58730 4 — 98562° 3		5	38454.23	005 .005	44655 4 — 58730 4 —	
2513.113	80			77557 2 — 117336° 2	2599.717					

Table 3. Classified lines of Mo III-Continued

2604.433 2605.087 2606.631 2609.580 2609.699 2610.804 2611.181 2611.825 2611.935 2612.188 2613.087 2614.515 2614.998 2615.207 2616.760 2618.972 2622.319 2623.350 2625.404 2625.483 2626.908	20 200 30 100 100 15 1 80 5 15 20 8 8 50 10 20 30	(cm <sup>-1</sup> )  38452.73 38448.33 38384.60 38374.96 38352.23 38308.90 38307.15 38290.94 38285.41 38275.97  38274.36 38276.65 38248.70 38244.96 38236.59 38229.53 38226.47 38203.79 38171.52 38122.81	(Å)  .001 .001 .002 .003 .007 .003 .000 .001 .005 .005 .008 .003 .000 .000 .001 .003 .001 .003	Level J Level J  54853 5 — 93306° 6  47978 2 — 86426° 2  49088 2 — 87473° 2  42665 2 — 81040° 3  52697 4 — 91050° 3  52697 4 — 91006° 5  50362 1 — 88669° 0  58893 3 — 97184° 4  91098 4 — 129383° 4  55366 1 — 93642° 2  56741 2 — 95016° 1  93642° 2 — 131913 2  54853 5 — 93102° 4  46299 3 — 84544° 4  77557 2 — 115794° 2  50362 1 — 88592° 2  64331 3 — 102557° 3  93709° 1 — 131913 2  52811 1 — 90982° 2	(Å)  2703.153 2704.271 2704.479 2704.632 2705.841 2709.180 2709.750 2712.237 2713.440 2716.151  2716.428 2717.127 2717.227 2718.088 2721.532 2727.112 2728.896	50 50 15 5 100 1 80 10 1 200 20 30 20 1 1 200	(cm <sup>-1</sup> )  36982.86 36967.57 36964.73 36962.64 36946.13 36900.59 36892.83 36859.00 36842.66 36805.89  36802.14 36792.67 36791.32 36779.66 36733.12 36657.97	(Å)  .006001 .001001002 .002 .003 .004008001 .001 .001 .001 .003002004 .003	56741     2     93709° 1       52811     1     89775° 0       58893     3     95856° 3       42521     2     79467° 2       56741     2     93642° 3       43461     3     80354° 3       54191     2     91050° 3       42665     2     79508° 3       52697     4     89503° 4       42665     2     79467° 2       43561     3     80354° 3       54191     2     90982° 2       94292° 1     131072     2       55366     1     92099° 2       58893     3     95551° 2
2600.116 2 2604.433 2 2605.087 2 2606.631 2 2609.580 2 2609.699 2 2610.804 2 2611.181 2 2611.825 2 2611.935 2 2612.188 2 2613.687 2 2613.943 2 2614.515 2 2614.998 2 2615.207 2 2616.760 2 2618.972 2 2622.319 2 2622.319 2 2622.404 2 2625.483 2 2626.908	200 30 100 100 15 1 8 5 15 20 8 8 5 10 20 20 30	38448.33 38384.60 38374.96 38352.23 38308.90 38307.15 38290.94 38285.41 38275.97 38274.36 38270.65 38248.70 38244.96 38236.59 38229.53 38226.47 38203.79 38171.52 38122.81	.001002003 .007 .003 .000 .001006 .005 .008003003000003 .001	47978 2 — 86426° 2 49088 2 — 87473° 2 42665 2 — 81040° 3 52697 4 — 91050° 3 52697 4 — 91006° 5 50362 1 — 88669° 0 58893 3 — 97184° 4 91098 4 — 129383° 4 55366 1 — 93642° 2 56741 2 — 95016° 1 93642° 2 — 131913 2 54853 5 — 93102° 4 46299 3 — 84544° 4 47557 2 — 115794° 2 50362 1 — 88592° 2 64331 3 — 102557° 3 93709° 1 — 131913 2	2704.271 2704.479 2704.632 2705.841 2709.180 2709.750 2712.237 2713.440 2716.151 2716.428 2717.127 2717.227 2718.088 2721.532 2727.112	50 15 5 100 1 80 10 1 200 20 30 20 1	36967.57 36964.73 36962.64 36946.13 36900.59 36892.83 36859.00 36842.66 36805.89 36802.14 36792.67 36791.32 36779.66 36733.12	001 .001 002 .002 .003 .004 008 001 .001 .004 .003 002	56741     2     93709° 1       52811     1     89775° 0       58893     3     95856° 3       42521     2     79467° 2       56741     2     9364° 3       43461     3     80354° 3       54191     2     91050° 3       42665     2     79508° 3       52697     4     89503° 4       42665     2     79467° 2       43561     3     80354° 3       54191     2     90982° 3       94292° 1     1     131072       55366     1     92099° 2       58893     3     95551° 2
2604.433 2605.087 2606.631 2609.580 2609.699 2610.804 2611.181 2611.825 2611.935 2612.188 2613.687 2613.943 2614.515 2614.998 2615.207 2616.760 2618.972 2622.319 2623.350 2625.404 2625.483 2626.908	30 100 100 15 1 80 5 15 20 8 8 50 10 20 20 20 30 10 30	38384.60 38374.96 38352.23 38308.90 38307.15 38290.94 38285.41 38275.97 38274.36 38270.65 38248.70 38244.96 38236.59 38229.53 38226.47 38203.79 38171.52 38122.81	002003 .007 .003 .000 .001006 .005 .008003000003 .001	49088 2 — 87473° 2 42665 2 — 81040° 3 52697 4 — 91050° 3 52697 4 — 91006° 5 50362 1 — 88669° 0 58893 3 — 97184° 4 91098 4 — 129383° 4 55366 1 — 93642° 2 56741 2 — 95016° 1 93642° 2 — 131913 2 54853 5 — 93102° 4 46299 3 — 84544° 4 77557 2 — 115794° 2 50362 1 — 88592° 2 64331 3 — 102557° 3 93709° 1 — 131913 2	2704.479 2704.632 2705.841 2709.180 2709.750 2712.237 2713.440 2716.151 2716.428 2717.127 2717.227 2718.088 2721.532 2727.112	15 5 100 1 80 10 1 200 20 30 20 1	36964.73 36962.64 36946.13 36900.59 36892.83 36859.00 36842.66 36805.89 36802.14 36792.67 36791.32 36779.66 36733.12	.001001002 .002 .003 .004008001 .001 .004 .003002004	52811     1     89775°     6       58893     3     95856°     3       42521     2     79467°     2       56741     2     93642°     2       43461     3     80354°     3       54191     2     91050°     3       52697     4     89503°     4       42665     2     79467°     2       43561     3     80354°     3       54191     2     90982°     2       94292°     1     131072     2       55366     1     92099°     2       58893     3     95551°     2
2605.087 2606.631 2609.580 2609.699 2610.804 2611.825 2611.935 2612.188 2613.687 2612.188 2613.687 2614.998 2615.207 2616.760 2618.972 2622.319 2623.350 2625.404 2625.483 2626.908	100 100 15 1 80 5 15 20 8 8 50 10 20 20 20 30	38374.96 38352.23 38308.90 38307.15 38290.94 38285.41 38275.97 38274.36 38270.65 38248.70 38244.96 38236.59 38226.47 38203.79 38171.52 38122.81	003 .007 .003 .000 .001006 .005 .008003002 .000003 .001	42665 2 — 81040° 3 52697 4 — 91050° 3 52697 4 — 91006° 5 50362 1 — 88669° 0 58893 3 — 97184° 4 91098 4 — 129383° 4 55366 1 — 93642° 2  56741 2 — 95016° 1 93642° 2 — 131913 2 54853 5 — 93102° 4 46299 3 — 84544° 4 77557 2 — 115794° 2 50362 1 — 88592° 2 64331 3 — 102557° 3 93709° 1 — 131913 2	2704.632 2705.841 2709.180 2709.750 2712.237 2713.440 2716.151 2716.428 2717.127 2717.227 2718.088 2721.532 2727.112	5 100 1 80 10 1 200 20 30 20 1 1	36962.64 36946.13 36900.59 36892.83 36859.00 36842.66 36805.89 36802.14 36792.67 36791.32 36779.66 36733.12	001 002 .002 .003 .004 008 001 .001 .004 .003 002 004	58893     3     —     95856° 3       42521     2     —     79467° 2       56741     2     —     93642° 2       43461     3     —     80354° 3       54191     2     —     91050° 3       42665     2     —     79508° 3       52697     4     —     89503° 4       42665     2     —     79467° 2       43561     3     —     80354° 3       54191     2     —     90982° 2       94292°     1     —     131072       55366     1     —     92099° 2       58893     3     —     95551° 2
2606.631 2609.580 2609.699 2610.804 2611.181 2611.825 2611.935 2612.188 2613.687 2613.943 2614.515 2614.998 2615.207 2616.760 2618.972 2622.319 2623.350 2625.404 2625.483 2626.908	100 15 1 80 5 15 20 8 50 10 20 80 20 1 20 30	38352.23 38308.90 38307.15 38290.94 38285.41 38275.97 38274.36 38270.65 38248.70 38244.96 38236.59 38226.47 38203.79 38171.52 38122.81	.007 .003 .000 .001 006 .005 .008 003 002 .000 003 .001	52697 4 — 91050° 3 52697 4 — 91006° 5 50362 1 — 88669° 0 58893 3 — 97184° 4 91098 4 — 129383° 4 55366 1 — 93642° 2  56741 2 — 95016° 1 93642° 2 — 131913 2 54853 5 — 93102° 4 46299 3 — 84544° 4 77557 2 — 115794° 2 50362 1 — 88592° 2 64331 3 — 102557° 3 93709° 1 — 131913 2	2705.841 2709.180 2709.750 2712.237 2713.440 2716.151 2716.428 2717.127 2717.227 2718.088 2721.532 2727.112	100 1 80 10 1 200 20 30 20 1	36946.13 36900.59 36892.83 36859.00 36842.66 36805.89 36802.14 36792.67 36791.32 36779.66 36733.12	002 .002 .003 .004 008 001 .001 .004 .003 002 004	42521 2 — 79467° 2 56741 2 — 93642° 2 43461 3 — 80354° 3 54191 2 — 91050° 3 42665 2 — 79508° 3 52697 4 — 89503° 4  42665 2 — 79467° 2 43561 3 — 80354° 3 54191 2 — 90982° 2 94292° 1 — 131072 2 55366 1 — 92099° 2 58893 3 — 95551° 2
2609.580 2609.699 2610.804 2611.181 2611.825 2611.935 2612.188 2613.687 2613.943 2614.515 2614.998 2615.207 2616.760 2618.972 2622.319 2623.350 2625.404 2625.483 2626.908	15 1 80 5 15 20 8 50 10 20 80 20 1 20 30 10 30	38308.90 38307.15 38290.94 38285.41 38275.97 38274.36 38270.65 38248.70 38244.96 38236.59 38229.53 38226.47 38203.79 38171.52 38122.81	.003 .000 .001 006 .005 .005 .008 003 002 .000 003 .001	52697 4 — 91006° 5 50362 1 — 88669° 0 58893 3 — 97184° 4 91098 4 — 129383° 4 55366 1 — 93642° 2 56741 2 — 95016° 1 93642° 2 — 131913 2 54853 5 — 93102° 4 46299 3 — 84544° 4 77557 2 — 115794° 2 50362 1 — 88592° 2 64331 3 — 102557° 3 93709° 1 — 131913 2	2709.180 2709.750 2712.237 2713.440 2716.151 2716.428 2717.127 2717.227 2718.088 2721.532 2727.112	1 80 10 1 200 20 30 20 1	36900.59 36892.83 36859.00 36842.66 36805.89 36802.14 36792.67 36791.32 36779.66 36733.12	.002 .003 .004 008 001 .001 .004 .003 002 004	56741 2 — 93642° 2 43461 3 — 80354° 3 54191 2 — 91050° 3 42665 2 — 79508° 3 52697 4 — 89503° 4  42665 2 — 79467° 2 43561 3 — 80354° 3 54191 2 — 90982° 2 94292° 1 — 131072 2 55366 1 — 92099° 2 58893 3 — 95551° 2
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2611.825 2611.935 2612.188 2613.687 2613.943 2614.515 2614.998 2615.207 2616.760 2618.972 2622.319 2623.350 2625.404 2625.483 2626.908	20 8 50 10 20 80 20 1 20 30	38275.97 38274.36 38270.65 38248.70 38244.96 38236.59 38229.53 38226.47 38203.79 38171.52 38122.81	.005 .008 003 002 .000 003 .001	55366 1 — 93642° 2  56741 2 — 95016° 1  93642° 2 — 131913 2  54853 5 — 93102° 4  46299 3 — 84544° 4  77557 2 — 115794° 2  50362 1 — 88592° 2  64331 3 — 102557° 3  93709° 1 — 131913 2	2716.151 2716.428 2717.127 2717.227 2718.088 2721.532 2727.112	200 20 30 20 1	36805.89 36802.14 36792.67 36791.32 36779.66 36733.12	001 .001 .004 .003 002 004	52697 4 — 89503° 4  42665 2 — 79467° 2  43561 3 — 80354° 3  54191 2 — 90982° 2  94292° 1 — 131072 2  55366 1 — 92099° 2  58893 3 — 95551° 2
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2612.188 2613.687 2613.943 2614.515 2614.998 2615.207 2616.760 2618.972 2622.319 2623.350 2625.404 2625.483 2626.908	8 50 10 20 80 20 1 20 30	38270.65 38248.70 38244.96 38236.59 38229.53 38226.47 38203.79 38171.52 38122.81	.008 003 002 .000 003 .003 .003	93642° 2 — 131913 2 54853 5 — 93102° 4 46299 3 — 84544° 4 77557 2 — 115794° 2 50362 1 — 88592° 2 64331 3 — 102557° 3 93709° 1 — 131913 2	2717.227 2718.088 2721.532 2727.112	30 20 1 1	36792.67 36791.32 36779.66 36733.12	.004 .003 002 004	43561 3 — 80354° 3 54191 2 — 90982° 2 94292° 1 — 131072 2 55366 1 — 92099° 2 58893 3 — 95551° 2
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2622.319 2623.350 2625.404 2625.483 2626.908	30 10 30	38122.81		52811 1 000020 2	2730.739	5	36609.28	001	42404 1 — 79013° 2
2623.350 2625.404 2625.483 2626.908	10 30		.001	J2011 1 9U982 2	2731.761	1	36595.59	.005	48734 1 — 85329° 2
2625.404 2625.483 2626.908	30	38107.82		50318 5 — 88441° 6	2731.853	1	36594.35	.002 005	49088 2 — 85683° 1 94292° 1 — 130886 1
2625.483 2626.908	-		.003	58730 4 — 96838° 3					
2626.908	- 5	38078.01	005	51425 3 — 89503° 4	2733.391	300	36573.76	.002	50318 5 — 86892° 5
		38076.87	006	97184° 4 — 135261 4	2734.272	1	36561.98	003	96589° 2 — 133151 3
	1	38056.21	.007	94117° 3 — 132173 4	2735.456	20	36546.16	.001	46601 4 — 83147° 5 42404 1 — 78947° 1
	100	38030.82	.001	54853 5 — 92884° 5	2735.684	50	36543.11	005	
	300	37960.04	001	50481 6 — 88441° 6	2736.383	50	36533.78	.005	43561 3 — 80095° 4 42521 2 — 79013° 2
2634.751	20 20	37942.94 37908.35	.000 —.003	46601 4 — 84544° 4 54191 2 — 92099° 2	2739.505	15	36492.14	.000 .004	59059 2 — 95551° 2
2637.155 2638.395	100	37890.53	003 003	52697 4 — 90588° 3	2742.344	1	36454.37	.000	48854 0 — 85308° 1
2639.435	50	37875.61	.000	54853 5 — 92728° 6	2744.485	50	36425.93	.000	<b>42521 2 — 78947°</b> 1
2646,205	50	37778.71	.002	59059 2 — 96838° 3	2745.618	50	36410.90	.007	50481 6 — 86892° 5
2652.004	2	37696.11	003	58893 3 — 96589° 2	2746.643	2	36397.31	007	54191 2 — 90588° 3
2652.524	50	37688.72	.000	42665 2 — 80354° 3	2746.838	10	36394.73	.002	54191 2 — 90586° 2
2654.762	10	37656.95	001	51482 2 — 89139° 1	2746.860	5	36394.44	002	106803° 3 — 143198 4
2655.545	20	37645.84	003	56741 2 — 94387° 2	2749.877	100	36354.51	100.	49541 4 — 85896° 4
2660.029	20	37582.39	.002	46962 5 — 84544° 4	2750.350	50	36348.26	.005	51482 2 — 87831° 1
2660.261	50	37579.11	003	43461 3 — 81040° 3	2750.350	50	36348.26	004	42665 2 - 79013° 2
2661.824	30	37557.05	.003	52697 4 — 90255° 4	2753.392	15	36308.10	002	55366 1 — 91674° 2
2661.975	20	37554.92	001	58730 4 — 96285° 5	2755.378	50	36281.93	.004	42665 2 — 78947° 1
2662.156	1	37552.36	.008	97709° 5 — 135261 4	2758.470	50	36241.27	001	49088 2 — 85329° 2 46299 3 — 82540° 2
2662.270	20	37550.75	.001	56741 2 — 94292° 1	2758.515	20ы	36240.67	009	40299 3 — 02340 2
2663.759	10	37529.77	.007	94117° 3 — 131647 2	2759.679	20	36225.39	001	58730 4 — 94955° 4
2667.374	80	37478.91	.001	43561 3 — 81040° 3	2760.073	10	36220.22	001	49088 2 — 85308° 1
2668.923	2	37457.16	.000	96838° 3 — 134295 3	2761.528	10	36201.14	<b>-</b> .010	106511° 4 — 142712 5
2672.918	30	37401.17	.000	54853 5 — 92254° 5	2762.711	200	36185.63	.002	46962 5 — 83147° 5
2674.739	50	37375.71	002	56741 2 — 94117° 3	2764.390	20	36163.66	.000	42404 1 — 78568° 0
	100	37354.58	.002	44655 4 — 82009° 4	2764.968	50	36156.10	.000	42521 2 — 78677° 1
2677.980	1	37330.48	001	47978 2 — 85308° 1	2765.165	20	36153.52	.002	54853 5 — 91006° 5
2681.251	10	37284.94	.000	46299 3 — 83584° 3	2768.461	2	36110.48	.008	54191 2 — 90301° 1
2689.819	30	37166.18	<b>001</b>	51425 3 — 88592° 2	2773.303 2774.220	8 5	36047.44 36035.52	003 004	51425 3 — 87473° 2 43461 3 — 79497° 4
2692.734	20	37125.95	.002	58730 4 — 95856° 3	+				
2693.837	20	37110.75	003	50362 1 — 87473° 2	2775.666	5	36016.75	003	56741 2 — 92758° 3
2602 040	15	27100 21	002	97184° 4 — 134295 3	2776.012	3 15	36012.26 36006.36	008 004	42665 2 — 78677° 1 43461 3 — 79467° 2
2693.949 2696.560	15 10	37109.21 37073.28	001 .002	51482 2 — 88592° 2 51425 3 — 88499° 3	2776.467 2777.691	15 10	35990.50	004 006	51482 2 — 87473° 2
2697.288	50	3 <b>7</b> 073.28 3 <b>7</b> 063.27	.002 004	42404 1 — 79467° 2	2780.036	100	35960.14	005	50362 1 — 86322° 0
2699.432	30 10	37033.27	.000	77557 2 — 114591° 3	2780.036	100	35956.73	003 001	59059 2 — 95016° 1
2 <del>7</del> 00.709	20	37033.84 37016.33	.001	51482 2 — 88499° 3	2780.300	50	35946.38	010	58730 4 — 94676° 3
	200	36991.91	.001	51482 2 — 88499 3 52697 4 — 89689° 5	2781.100	50	35935.31	.002	43561 3 — 79497° 4
	100	36986.50	.000	42521 2 — 79508° 3	2784.005	1	35908.88	.002	51482 2 — 87391° 3
2102.001	100	30300.30	.000	72321 Z — 17306 3	2784.215	100	35906.88	.000	43561 3 — 79467° 2

Table 3. Classified lines of Mo III-Continued

Wavelength	Int.a	Wavenumber	O-C	Classification	Wavelength	Int.a	Wavenumber	O-C	Classification
(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J Level
2785.561	10	35888.82	002	64331 3 — 100219° 2	2953.595	50	33847.15	003	51482 2 — 85329
792.374	100	35801.26	001	52697 4 — 88499° 3	2953.857	50	33844.15	004	56741 2 — 90586
793.950	1	35781.07	<b>-</b> .005	52811 1 — 88592° 2	2955.436	20	33826.07	.000	51482 2 85308
799.485	10	35710.33	001	46299 3 82009° 4	2957.206	30	33805.82	001	48734 1 — 82540
800.358	300	35699.19	.001	44655 4 — 80354° 3	2958.059	1	33796.07	004	46299 3 — 80095
801.248	100	35687.85	.004	44655 4 — 80343° 5	2961.844	20	33752.89	.002	46601 4 — 80354
806.498	5	35621.10	001	64331 3 — 99952° 2	2962.833	20	33741.62	001	46601 4 — 80343
2806.887	1	35616.16	003	55366 1 — 90982° 2	2971.788	50	33639.95	.000	54191 2 — 87831
2809.944 2811.924	20 20	35577.41	003 001	50318 5 — 85896° 4 43461 3 — 79013° 2	2976.357	20	33588.31	001	54853 5 — 88441
.011.924	20	35552.36	001	43461 3 — 79013° 2	2982.066	1	33524.01	.003	58730 4 — 92254
816.554	10	35493.92	004	58893 3 — 94387° 2	2983.171	20	33511.59	.000	52811 1 — 86322
816.646	5	35492.76	009	42665 2 — 78158° 3	2983.927	300	33503.10	.003	44655 4 — 78158
819.868	30	35452.21	.000	43561 3 — 79013° 2	2984.740	20	33493.98	.004	46601 4 80095
820.811	5	35440.36	003	44655 4 — 80095° 4	2988.627	200ы	33450.42	.010	42521 2 — 75972
823.887	10	35401.76	004	54853 5 — 90255° 4	2994.838	100	33381.05	.003	46962 5 — 80343
825.048	20	35387.21	008	58730 4 — 94117° 3	2995.362	100	33375.21	001	43461 3 — 76836
2826.591	15	35367.89	009	58730 4 — 94098° 4	3001.542	100	33306.49	.008	42665 2 — 75972
2829.187	1	35335.44	.009	96838° 3 — 132173 4	3003.749	80	33282.02	.003	54191 2 — 87473
.837.408 .838.155	15 15	35233.07	001	59059 2 — 94292° 1	3004.382	200	33275.01	.004	43561 3 — 76836
2838.133	15	35223.79	003	58893 3 — 94117° 3	3008.851	100	33225.59	.000	55366 1 — 88592
2838.497	100	35219.55	002	55366 1 — 90586° 2	3010.377	15	33208.75	.000	46299 3 — 79508
2839.716	3	35204.43	.000	58893 3 94098° 4	3010.653	2	33205.70	.002	58893 3 — 92099
2852.410	10	35047.77	.002	46962 5 — 82009° 4	3011.120	5	33200.55	001	54191 2 — 87391
2854.659	50	35020.16	002	52811 1 — 87831° 1	3011.331	40	33198.23	.001	52697 4 — 85896
2856.066	1	35002.91	005	49541 4 — 84544° 4	3014.045	1	33168.34	.001	46299 3 — 79467
2856.227	5	35000.94	003	51425 3 — 86426° 2	3018.571	200	33118.61	.001	51425 3 — 84544
1050.070	40	240/7.25	.006	98562° 3 — 133563 2	3023.722	5	33062.19	.002	47978 2 — 81040
2858.969 2860.687	40 1	34967.37	.003	50362 1 — 85329° 2	3039.040	20	32895.55	003	46601 4 — 79497
2861.591	8	34946.37 34935.33	001 .002	50362 1 — 85308° 1 55366 1 — 90301° 1	3041.209 3049.684	10 1	32872.09 32780.74	004 002	52811 1 — 85683 58893 3 — 91674
2861.806	15	34932.71	004	56741 2 — 91674° 2	3058.638	1	32684.78	.000	72356 2 — 105041
2868.343	100	34853.10	004	44655 4 — 79508° 3	3060.380	30	32666.18	004	50481 6 — 83147
2869.272 2869.701	30 300	34841.81	.000 003	44655 4 — 79497° 4 54853 5 — 89689° 5	3061.228	10	32657.13	010	58730 4 — 91387
2873.607	1	34836.61 34789.26	003 .004	54853 5 — 89689° 5 96589° 2 — 131379 2	3065.181	1 8	32615.02	007	59059 2 — 91674
2877.580	200	34741.22	010	46299 3 — 81040° 3	3070.415 3074.234	100	32559.42 32518.98	001 005	72481 1 — 105041 52811 1 — 85329
2884.135	20	34662.27	010 003	52811 1 — 87473° 2	3074.234	30	32497.88	.000	52811 1 — 85329
2885.109	10	34650.57	005	54853 5 — 89503° 4	3079.367	15	32464.77	004	55366 1 — 87831
2889.614	200	34596.55	.009	43561 3 — 78158° 3	3080.010	100	32457.99	.000	44655 4 — 77113
2890.752	20	34582.93	001	59059 2 — 93642° 2	3085.723	5	32397.90	.001	56741 2 — 89139
2898.053	50	24405.01	001	49088 2 — 83584° 3	2000 022	20	20254.01	000	10141 0 85014
2090.205	30	34495.81	001		3089.823 3097.338	30	32354.91	003	43461 3 — 75816
1900.203	20	34470.22 34439.08	.007 .002	51425 3 — 85896° 4 46601 4 — 81040° 3	3097.407	10	32276.42	.001	58730 4 — 91006
2904.114	80	34423.82	002 002	53407 0 — 87831° 1	3099.422	10 50	32275.70 32254.71	.001 .003	53407 0 — 85683 43561 3 — 75816
905.337	50	34409.33	.000	55366 1 — 89775° 0	3101.223	1	32235.98	.003	103621° 5 — 135857
906.054	50	34400.84	001	54191 2 — 88592° 2	3101.264	10	32235.56	.001	54191 2 — 86426
908.527	5	34371.59	005	58730 4 — 93102° 4	3106.860	100	32177.50	.006	50362 1 — 82540
2913.324	80	34315.00	001	42521 2 — 76836° 2	3108.682	15	32158.64	001	51425 3 — 83584
913.886	50	34308.38	.002	56741 2 — 91050° 3	3108.892	3	32156.47	.001	58893 3 — 91050
918.814	20	34250.46	007	99313° 1 — 133563 2	3109.068	10	32154.65	.000	72356 2 — 104511
919.645	20	34240.71	001	56741 2 — 90982° 2	3113.699	1	32106.83	.000	55366 1 — 87473
2922.419	1	34208.21	001 002	58893 3 — 93102° 4	3113.099	50	32101.65	.001	51482 2 — 83584
923.102	5	34200.22	.002	51482 2 — 85683° 1	3114.201	8	32058.99	001 004	42665 2 — 74724
923.576	30	34194.67	002	52697 4 — 86892° 5	3120.263	3	32039.29	001	54853 5 — 86892
925.595	50	34171.08	003	42665 2 — 76836° 2	3138.795	100	31850.13	.005	56741 2 — 88592
935.571	3	34054.96	005	46299 3 — 80354° 3	3154.194	5	31694.64	.000	58893 3 — 90588
948.630	30	33904.14	005	51425 3 — 85329° 2	3154.552	20	31691.04	.003	50318 5 — 82009
952.054	10	33864.82	003	58893 3 — 92758° 3	3167.977	10	31556.75	.009	46601 4 — 78158
	8	33856.66	.003	62879 0 — 96736° 1	3174.514	1	31491.77	.010	54191 2 — 85683
952.765						-			

Table 3. Classified lines of Mo 111-Continued

Wavelength	Int.a	Wavenumber	O-C	Classific	cation	Wavelength	Int.a	Wavenumber	O-C	Classific	ation
(Å)		(cm <sup>-1</sup> )	(Å)	Level $J$	Level J	(Å)		(cm <sup>-1</sup> )	(Å)	Level J	Level J
3183.256	100	31405.29	.006	52811 I —	84216° 0	3220.417	3	31042.91	006	54853 5	85896° 4
3187.736	200bl	31361.15	.007	58893 3 —	90255° 4	3229.446	20	30956.12	.007	55366 1 —	86322° (
			008	103303° 2 —	134665 3						
3190.772	30	31331.31	.003	42521 2 —	73853° 2						
3197.456	20	31265.82	007	49088 2	80354° 3						
3197.733	1	31263.11	002	43461 3 —	74724° 3						
3208.009	10	31162.97	002	43561 3 —	74724° 3						
3210.507	300	31138.73	.002	54191 2	85329° 2						
3212.678	50	31117.69	.001	54191 2 —	85308° 1						
3218.921	5	31057.34	007	51482 2 —	82540° 2						

<sup>&</sup>lt;sup>a</sup> Symbols following are: h=hazy, bl=blended.

Table 4. Least-squares fitted (LSF) and Hartree-Fock with relativistic corrections (HFR) parameter values and their ratios for the  $4d^4$ ,  $4d^3$  5s and  $4d^2$  5s<sup>2</sup> configurations of doubly ionized molybdenum (Mo III) in cm<sup>-1</sup>

Config.	Parameter	LSF	HFR	LSF/HFR
4d <sup>4</sup>	$E_{av}$	19370(12)	** *	
	$F^2(dd)$	45688(35)	58323	0.783
	$F^4(dd)$	30027(76)	37994	0.790
	Z <sub>4d</sub>	699(8)	700	0.999
	α	31(1)		
	β	-237(21)		
$4d^{3} 5s$	$E_{ m av}$	49995(10)	49865	1.003
	$F^2(dd)$	48283(40)	61345	0.787
	$F^4(dd)$	32087(81)	40177	0.799
	$G^2(ds)$	11882(30)	15321	0.776
	54d	756(9)	768	0.984
	α	23(1)		
	β	-102(20)		а
4d <sup>2</sup> 5s <sup>2</sup>	$E_{ m av}$	95745(30)	99404	0.963
	$F^2(dd)$	51728(220)	64131	0.807
	$F^4(dd)$	32720(fixed)	42200	0.775
	<b>5</b> 4d	850(fixed)	837	1.015
	α	30(fixed)		
	β	-102(20)		a
CI	$\mathbb{R}^2(dd,ds)^c$	- 12107(150)	<b>—</b> 17754	0.686 <sup>b</sup>
	$R^2(dd,ss)$	12684(160)	18454	0.686 <sup>b</sup>
	$\mathbb{R}^2(dd,ds)^c$	- 11868(150)	-17253	0.686 <sup>b</sup>

Standard deviation of the level fit =  $44 \text{ cm}^{-1}$ 

<sup>&</sup>lt;sup>a</sup> The values of  $\beta$  for  $4d^3 5s$  and  $4d^2 5s^2$  were held equal to each other.

<sup>&</sup>lt;sup>b</sup> The values of the  $R^2$  parameters were restricted to have the same LSQ/HFR ratios.

<sup>°</sup> The first  $R^2(dd,ds)$  is the interaction parameter between  $4d^4$  and  $4d^3$  5s. The second  $R^2(dd,ds)$  is for the  $4d^3$  5s- $4d^2$  5s<sup>2</sup> interaction.

Table 5. Least-square fitted (LSF) and Hartree-Fock with relativistic corrections (HFR) parameter values and their ratios for the  $4d^3$  6s and  $4d^3$  5d configurations of doubly ionized molybdenum (Mo III) in cm<sup>-1</sup>.

Config.	Parameter	LSF	HFR	LSF/HFR
4d³ 6s	$E_{ m av}$	146417(17)	144393	1.016
	$F^2(dd)$	48943(60)	62696	0.781
	$F^4(dd)$	30828(220)	41170	0.749
	$G^2(ds)$	2247(36)	2861	0.785
	Z <sub>4d</sub>	804(11)	792	1.015
	α	41(3)		
4d³ 5d	$oldsymbol{E}_{ ext{av}}$	147035(41)	144217	1.022
	$F^2(dd)$	49036(77)	62758	0.781
	$F^4(dd)$	30803(120)	41218	0.747
	$F^{2}(4d,5d)$	8598(90)	10145	0.848
	$F^{4}(4d,5d)$	3219(120)	4438	0.725
	$G^{0}(4d,5d)$	2396(70)	3456	0.693
	$G^{2}(4d,5d)$	2053(80)	3466	0.592
	$G^{4}(4d,5d)$	1614(110)	2702	0.597
	$\zeta_{4d}$	804(6)	793	1.014
	ζ <sub>5d</sub>	102(9)	80	1.275
	α	48(2)		
CI	$R^2(4d5d,4d6s)$	-2164(100)	<b>—2747</b>	0.790ª
	$R^{2}(4d5d,6s4d)$	-112(5)	<b>—14</b> 1	0.790ª

Standard deviation of the level fit  $= 33 \text{ cm}^{-1}$ 

<sup>&</sup>lt;sup>a</sup> The CI parameters were constrained to have the same LSQ/HFR ratios.

Table 6. Least-squares fitted (LSF) and Hartree-Fock with relativistic corrections (HFR) parameter values and their ratios for the  $4d^3 5p$  and  $4d^2 5s5p$  configurations of doubly ionized molybdenum (Mo III) in cm<sup>-1</sup>.

Config.	Parameter	LSF	HFR	LSF/HFR
4d³ 5p	$E_{ m av}$	93015(37)	91474	1.017
	$F^2(dd)$	48622(120)	61908	0.785
	$F^4(dd)$	31578(260)	40591	0.780
	$F^2(dp)$	16820(210)	21158	0.795
	$G^{I}(dp)$	7189(80)	8947	0.804
	$G^3(dp)$	4267(210)	7464	0.572
	$\zeta_{4d}$	832(24)	779	1.068
	$\zeta_{5p}$	1529(49)	1217	1.256
	α	35(4)		
	β	212(62) <sup>a</sup>		
$4d^2 5s 5p$	$E_{ m av}$	138238(50)	136752	1.011
_	$F^2(dd)$	51906(340)	64574	0.804
	$F^4(dd)$	36428(550)	42528	0.857
	$F^2(dp)$	19456(230)	22847	0.852
	$G^2(ds)$	11844(350)	15246	0.777
	$G^1(dp)$	8003(190)	9207	0.869
	$G^3(dp)$	5605(500)	7900	0.709
	$G^1(sp)$	24399(180)	42122	0.579
	Z <sub>4d</sub>	849(28)	847	1.002
	$\zeta_{5p}$	1841(90)	1470	1.249
	α	30(fixed)		
	β	-212(62)		a
CI	$R^2(dd,ds)$	-10683(500)	<b>—</b> 17155	0.623 <sup>b</sup>
	$R^{2}(dp,sp)$	-11097(520)	-17820	0.623b
	$R^{1}(dp,ps)$	-10779(500)	17302	0.623b

Standard deviation of the level fit =  $183 \text{ cm}^{-1}$ 

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<sup>&</sup>lt;sup>a</sup> The values of  $\beta$  for the two configurations were constrained to be equal.

<sup>&</sup>lt;sup>b</sup> The CI parameters were constrained to have the same LSF/HFR ratios.